ORDER NO.DSD0307012C2

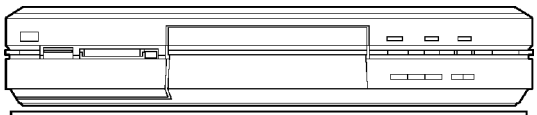
Service Manual

DVD Video Recorder

DMR-E100HEB / DMR-E100HEG

Colour

(S).....Silver Type



When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

SPECIFICATIONS

Specifications

Power supply:	**AC220-240 V, 50 Hz**
Power consumption:	**48 W**
Recording system:	**DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)**
Optical pick-up:	**System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)**
Recordable discs:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs (for General Ver. 2.0/X4-SPEED DVD-R Revision 1.0)** **8 cm 1.4 GB DVD-Rdiscs (for General Ver. 2.0)**
Recording time:	
(with 4.7GB disc):	**Max. 6 hours** **XP: 60 minutes** **SP: 120 minutes** **LP: 240 minutes** **EP: 360 minutes**

(with built-in 80GB HDD):	**Max. 160 hours** **XP: 26 hours** **SP: 52 hours** **LP: 104 hours** **EP: 160 hours**
Region number:	**Region No.2**
Playable discs:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)** **8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)** **DVD-VIDEOdiscs** **CD-Audio discs (CD-DA)** **Video CD discs** **DVD-Audio discs** **CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)**
Built-in HDD Capacity:	**80GB**
Drive Unit:	**High Speed Drive (correspond to 4 times speed with DVD-R disc)**
Audio	
Recording system:	**Dolby Digital 2ch, Linear PCM** **2ch (XP mode)**
Audio In:	**AV1/AV2 (21pin) AV3/AV4 (pin jack)**
Input Level:	**Standard: 0.5 Vrms** **Full scale: 2 Vrms at 1k Hz**
Input Impedance:	**More than 10k ohm**
Audio Out:	**AV1/AV2 (21 pin) Audio Out (pin jack)**
Output Level:	**Standard: 0.5 Vrms** **Full scale: 2 Vrms at 1k Hz**
Output impedance:	**less than 1k ohm**
Digital Audio Out:	**Optical terminal (PCM, Dolby Digital, DTS MPEG)**
Television System	
Tuner System:	**PAL-I 75 ohm terminated (For E100HEB)** **PAL-B/ G/ H 75 ohm terminated (For E100HEG)**
Channel Coverage:	
DMR-E100HEB only	**UHF: CH 21-68**

DMR-E100HEG only	VHF: CH E2-E12, A-H2 (For Italy) UHF: CH 21-69 CATV: CH S01-S05 (S1-S3) S1-S20 (M1-U10) S21-S41 [8MHz, RASTER]
RF Converter Output:	UHF: CH21-68, 71± 3dB μ 75 ohm (For the E100HEB) Not provided (For the E100HEG)
Video	
Video System:	PAL colour signal, 625 lines, 50 fields NTSC colour signal, 525 lines, 60 fields
Recording System:	MEPG2 (Hybrid VBR), MPEG4 (VBR)
Video in:	AV1/AV2 (21 pin), AV3/AV4 (pin jack) 1Vp-p 75 ohm, terminated
S-Video in:	AV2 (21 pin), AV3/AV4 (S terminal) 1Vp-p 75 ohm, terminated
RGB In:	AV2 (21 pin), 0.7Vp-p (PAL) 75 ohm, terminated
Video Out:	AV1/AV2 (21 pin), Video Out (pin jack) 1Vp-p 75 ohm, terminated
S-Video Out:	AV1 (21 pin), S-Video Out(S terminal) 1Vp-p 75 ohm, terminated
RGB Out:	AV1 (21 pin) 0.7Vp-p (PAL) 75 ohm, terminated
DV Input:	4 pin
Other input/output connectors:	Digital audio optical output connector (PCM, Dolby Digital, DTS)
SD/PC Card Slot	
SD Card Slot:	SD Memory Card Slot
PC Card Slot:	PC Card Type U
JPEG	
Compatible Media (SD Card Slot):	SD Memory Card, MultiMediaCard
Compatible Media (PC Card Slot):	A PC Card adaptor conforming to PC Card Standards, ATA Flash PC Card, PC Card Adaptor (SD Memory Card, xD-Picture Card, Microdrive, Multi MediaCard, CompactFlash, SmartMedia, Memory Stick), Mobile hard disc
Format:	FAT12, FAT16

Image File Format:	JPEG conforming to DCF (Design rule for Camera File system), (Sub sampling 4:2: 2 or 4:2:0) TIFF (Uncompressed RGB chunky), DPOF Compatible
Number of pixels:	320×240 to 6144×4096
Thawing Time:	Approx. 7 sec. (2 M pixels)
SD Video (MPEG4, MPEG2)	
Compatible Media (SD Card Slot):	SD Memory Card, MultiMediaCard (restricted to fine, normal, economy of MPEG4)
Compatible Media (PC Card Slot):	Mobile hard disk (Only read)
MPEG4	
Codec:	Video: MPEG4 conforming, Audio: G.726 conforming
Number of pixels:	super fine/fine: 320× 240(QVGA), normal/economy: 176× 144(QCIF)
Recording rate:	superfine: 1050 kbps, fine: 430 kbps, normal: 300 kbps, economy: 100 kbps (include Audio transfer rate as 32 kbps)
File format:	SD-Video format conforming (ASF)
MPEG2	After VR conversion and transfer to HDD, the playback is possible.
Codec:	MPEG2 (SD-Video Entertainment Video Profile) (VR conversion and transfer is possible from card to HDD or DVD-RAM disc)
File format:	SD-Video format conforming
Dimensions:	Approx. 430 (W)×79 (H)×296 (D) mm [Approx. 16 15/16 "(W)×3 1/8 " (H)×11 11/16 " (D)] (excludingprotrusions)
Mass:	Approx. 5.5 kg (12.13 lbs)
Operating temperature:	5 °C-40°C (41 °F-104 °F)
Operating humidity range:	10 %-80 % RH (no condensation)
Clock unit:	Quartz-controlled 12-hour digital display

LASER Specification

Class 1 LASER Product

Wave length:	**775-815 nm 655-666 nm**
Laser power:	**No hazardous radiation is emitted with the safety protection.**

Power consumption in standby mode:

approx. 3.5 W

Solder:

This model uses lead free solder (PbF).

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1789) is listed separately.

Please refer to ORDER NO. RAM0307003C0.

Panasonic

1. SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

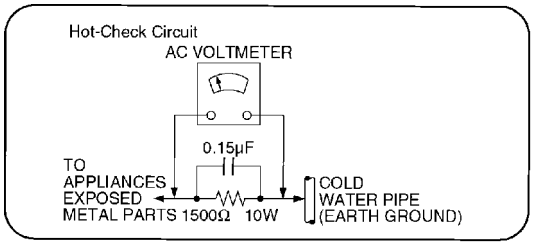
1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

1.1.1. LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis,**

the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/ 2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical

ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a**

carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

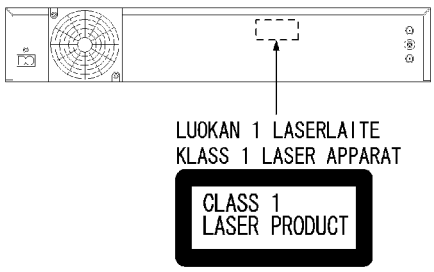
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

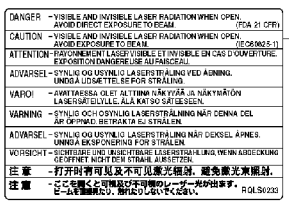
1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

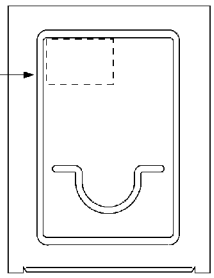
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.




DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM (FDA 21 CFR)
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.
注意 - 打开时有可见及不可见激光辐射。避免激光束照射。
注意 - ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。
RQLS0233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 15.2. The Main P.C.B.)

NOTE:
The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION
Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT
Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(For Finnish)

VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).

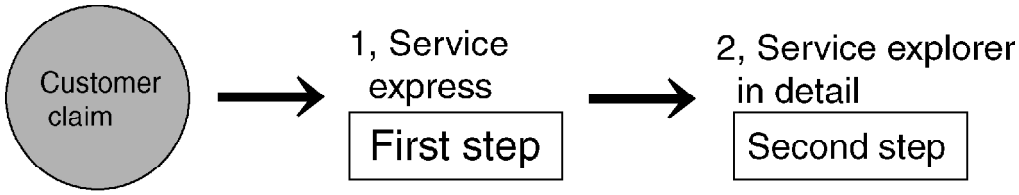
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
- How to format the HDD -
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the “Service Explorer Express” andthe second is “Service Explorer in Detail”.



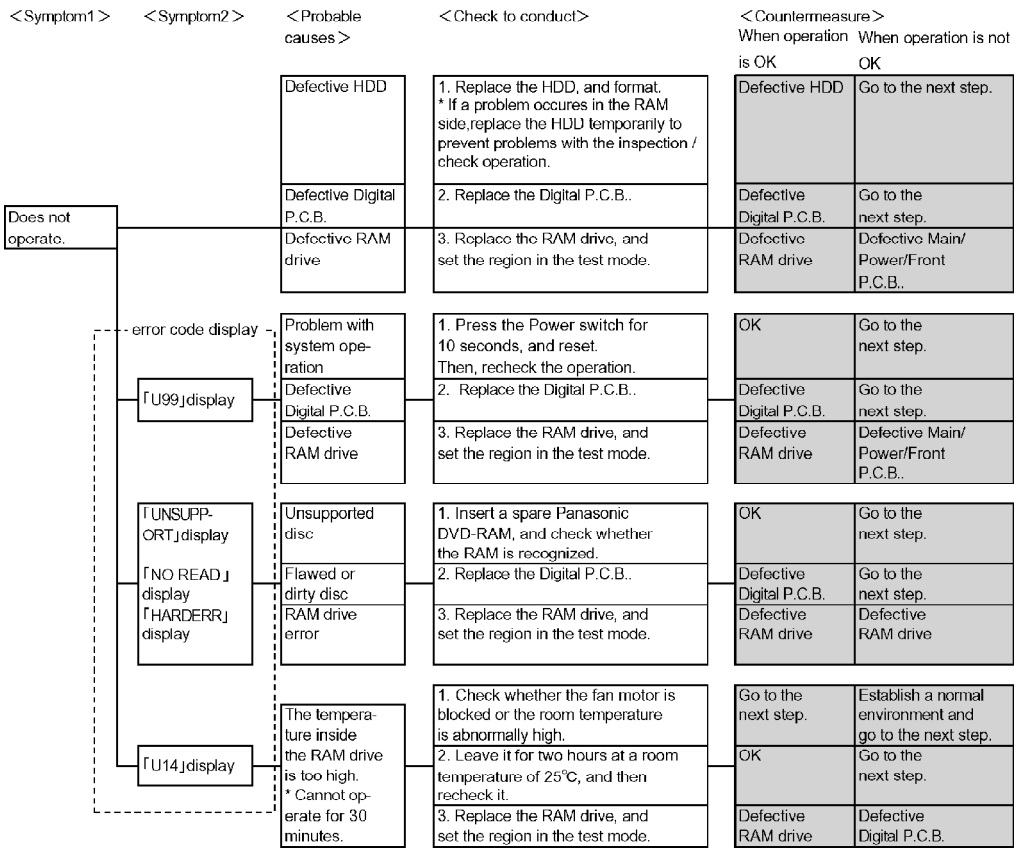
1. For details about the service / test modesetting mentioned in the description, refer to the “List of various modes”.

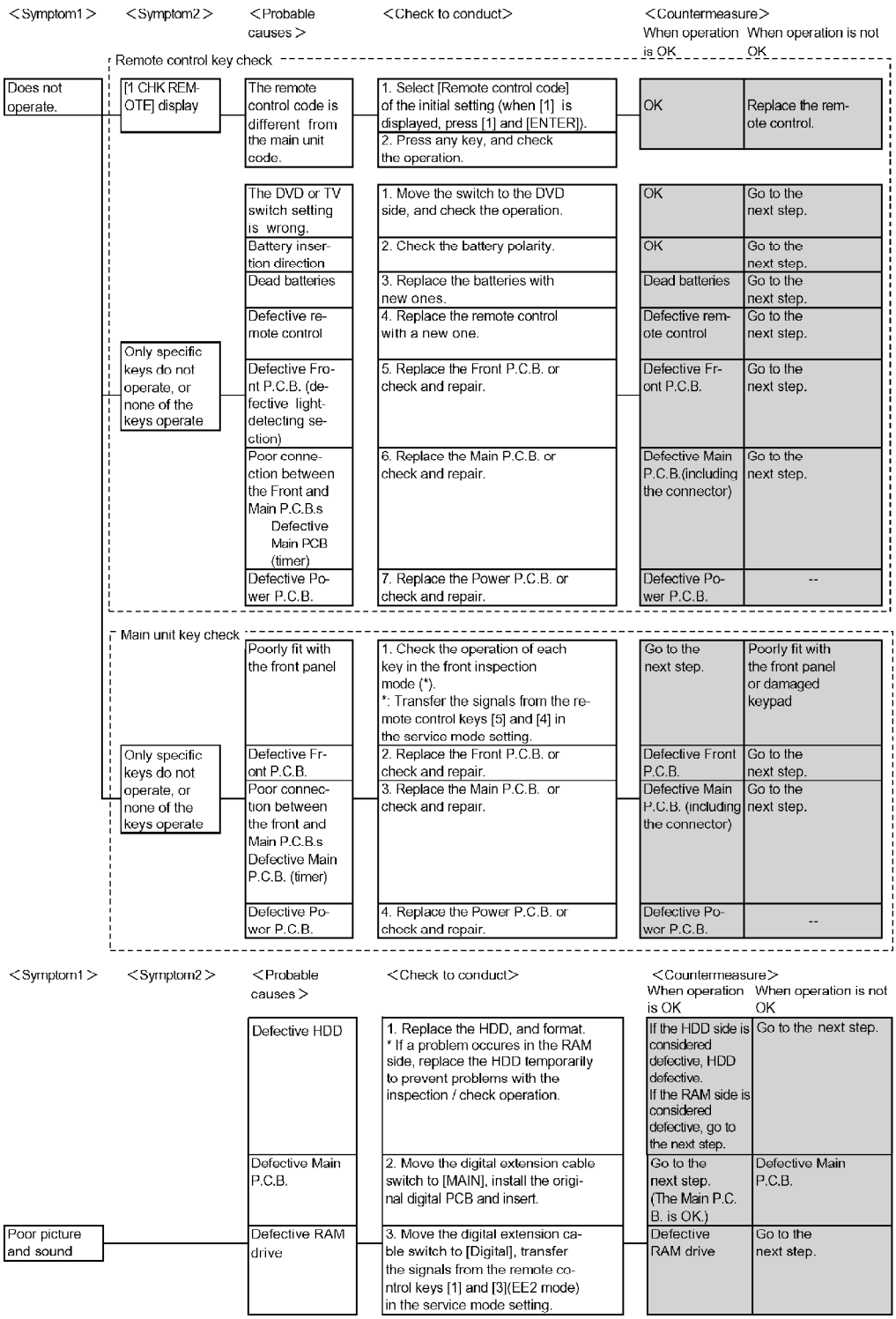
- Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.
- Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.

2. For disassembly and replacement procedures, refer to the “Assembling and Disassemling”.

6.1. Service Explorer Express

The following steps allow you to check each block separately (HDD, Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).
Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control HDD.
Conditions: Nothing special.


＜Symptom1＞
＜Symptom2＞
＜Probable causes＞
＜Check to conduct＞
＜Countermeasure＞
When operation is OK
When operation is not OK
Does not operate.
Defective HDD
1. Replace the HDD, and format.
* If a problem occures in the RAM side,replace the HDD temporarily to prevent problems with the inspection / check operation.
Defective HDD
Go to the next step.
Defective Digital P.C.B.
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
error code display
Problem with system operation
1. Press the Power switch for 10 seconds, and reset.
Then, recheck the operation.
OK
Go to the next step.
「U99」display
Defective Digital P.C.B.
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
「UNSUPPORT」display
「NO READ」display
「HARDERR」display
Unsupported disc
1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.
OK
Go to the next step.
Flawed or dirty disc
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
RAM drive error
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective RAM drive
The temperature inside the RAM drive is too high.
* Cannot operate for 30 minutes.
1. Check whether the fan motor is blocked or the room temperature is abnormally high.
Go to the next step.
Establish a normal environment and go to the next step.
「U14」display
2. Leave it for two hours at a room temperature of 25°C, and then recheck it.
OK
Go to the next step.
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Digital P.C.B.



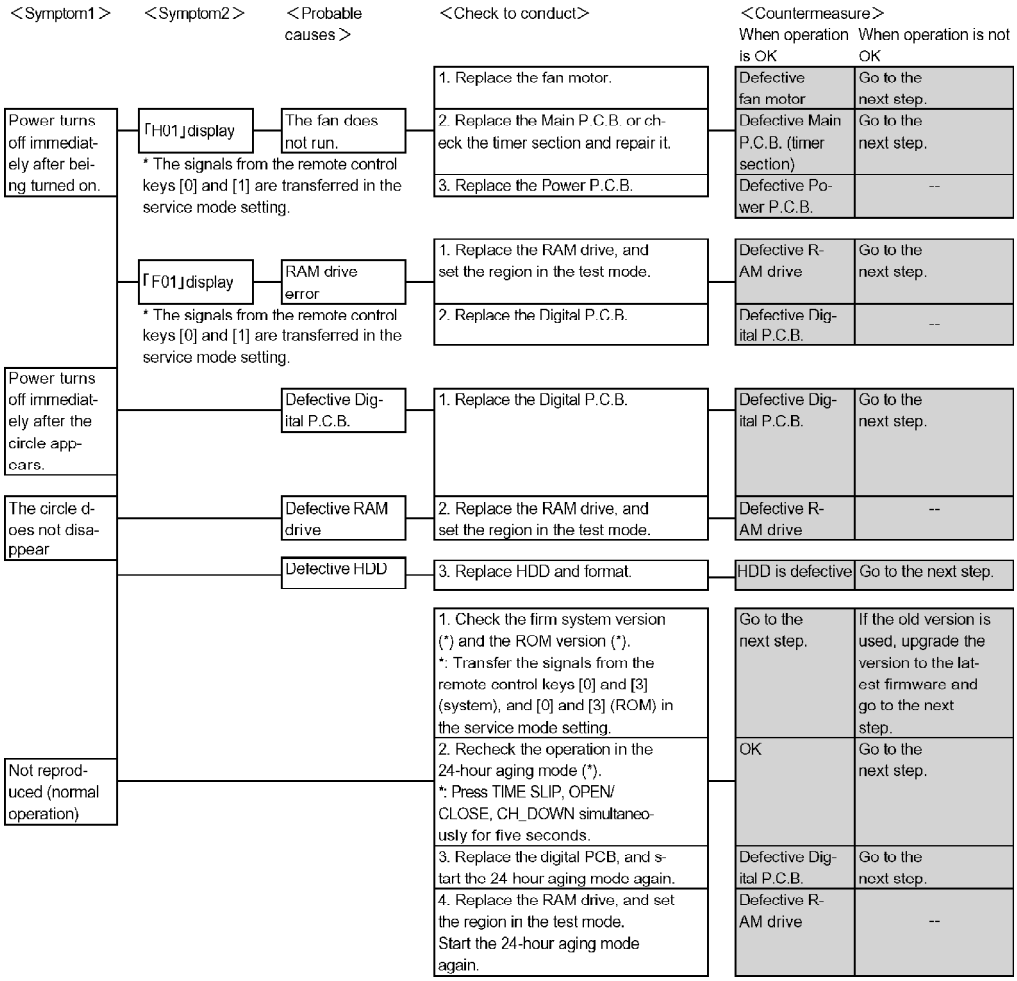
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Remote control key check					
Does not operate.	[1 CHK REMOTE] display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]). 2. Press any key, and check the operation.	OK	Replace the remote control.
	Only specific keys do not operate, or none of the keys operate	The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side, and check the operation.	OK	Go to the next step.
		Battery insertion direction	2. Check the battery polarity.	OK	Go to the next step.
		Dead batteries	3. Replace the batteries with new ones.	Dead batteries	Go to the next step.
		Defective remote control	4. Replace the remote control with a new one.	Defective remote control	Go to the next step.
		Defective Front P.C.B. (defective light-detecting section)	5. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s Defective Main PCB (timer)	6. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B.(including the connector)	Go to the next step.
		Defective Power P.C.B.	7. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--
Main unit key check					
		Poorly fit with the front panel	1. Check the operation of each key in the front inspection mode (*). *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step.	Poorly fit with the front panel or damaged keypad
	Only specific keys do not operate, or none of the keys operate	Defective Front P.C.B.	2. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the front and Main P.C.B.s Defective Main P.C.B. (timer)	3. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	4. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Poor picture and sound		Defective HDD	1. Replace the HDD, and format. * If a problem occures in the RAM side, replace the HDD temporarily to prevent problems with the inspection / check operation.	If the HDD side is considered defective, HDD defective. If the RAM side is considered defective, go to the next step.	Go to the next step.
		Defective Main P.C.B.	2. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	3. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.
Conditions: Nothing special.


＜Symptom1＞
＜Symptom2＞
＜Probable causes＞
＜Check to conduct＞
＜Countermeasure＞
When operation is OK
When operation is not OK
Power turns off immediately after being turned on.
「H01」display
The fan does not run.
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the fan motor.
Defective fan motor
Go to the next step.
2. Replace the Main P.C.B. or check the timer section and repair it.
Defective Main P.C.B. (timer section)
Go to the next step.
3. Replace the Power P.C.B.
Defective Power P.C.B.
--
「F01」display
RAM drive error
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Go to the next step.
2. Replace the Digital P.C.B.
Defective Digital P.C.B.
--
Power turns off immediately after the circle appears.
Defective Digital P.C.B.
1. Replace the Digital P.C.B.
Defective Digital P.C.B.
Go to the next step.
The circle does not disappear
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
--
Defective HDD
3. Replace HDD and format.
HDD is defective
Go to the next step.
Not reproduced (normal operation)
1. Check the firm system version (*) and the ROM version (*).
*: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.
Go to the next step.
If the old version is used, upgrade the version to the latest firmware and go to the next step.
2. Recheck the operation in the 24-hour aging mode (*).
*: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.
OK
Go to the next step.
3. Replace the digital PCB, and start the 24 hour aging mode again.
Defective Digital P.C.B.
Go to the next step.
4. Replace the RAM drive, and set the region in the test mode.
Start the 24-hour aging mode again.
Defective RAM drive
--

6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

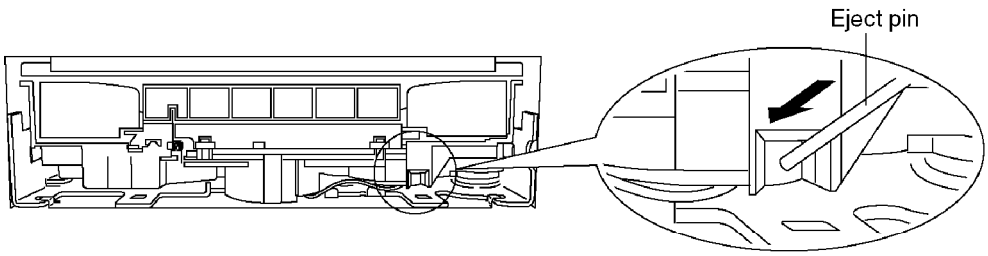
Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Noise in the picture and sound. No picture color		The signal is too weak.	1.Confirm wheather connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	7. Replace HDD, and format.	Defective HDD	Go to the next step.
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	5. Replace HDD, and format.	Defective HDD	Go to the next step.
Picture and sound are not synchronized		Poor turner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	3.Replace HDD, and format.	Defective HDD	Go to the next step.
Block noise		Defective RAM drive, Digital P.C.B. and HDD.	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B.	(Auto recording and playback) Defective Digital P.C.B.	--
			3. Replace HDD, and format.	Defective HDD	(Auto recording and playback) Go to the next step.
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Other

Items needed: Digital P.C.B., HDD.
Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. When the tray is open, press SKIP(R) and SKIP(L) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.



Eject pin
(Part number : JZS0484)

Turn the gear with an eject pin.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
A timer program has not been created.	「F12」display	Timer program error (defective Main P.C.B.)	1. Replace the Main P.C.B. or check and repair. Check the timer program operation using the timer section.	Defective Main P.C.B.	--

* Transfer the signals from the remote control keys [0] and [1] in the service test setting.

6.2.4. Some defective functions

Items needed: PC card adaptor (media), Digital P.C.B.
conditions: Nothing special

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not NG
The PC card does not operate		Poor seating of the PC card	1.Check whether [CARD] appears on the FL display	OK	Go to the next step.
		Defective PC card P.C.B.	2.insert recordable media and check the operation in the PC card inspection mode(*). *Transfer the signals from the remote control keys [7] and [1] in the service mode setting. 3.Insert recorded media and check the operation in the JPEG decode inspection mode(*). *Transfer the signals from the remote control keys [7] and [2] in the service mode setting.	OK	Go to the next step.
		Poor connection with the PC card	4.Remove the front panel, and make sure that the mechanical section and connector on the PC card slot are connected.	OK	Go to the next step.
		Defective Digital P.C.B.	5.Replace the Digital P.C.B.	Defective Digital P.C.B.	---

6.2.5. Caution when replacing the parts

1. RAM Drive

In case the unit does not operate normally after replacement of the RAM Drive with new one.

A. While power is off, press [SKIP (R)], [TIME SLIP] and [OPEN/ CLOSE] keys simultaneously for five seconds. Then the unit turns into “TEST Mode”, and the region code is stored on the new RAM Drive automatically.

FL Indication:

After few seconds, turn off the power and turn on the power again, then the unit operates normally.

Note:
In this case, all parameters are initialized.

2. Timer Microprocessor (IC7502)

In case the unit does not operate normally after replacement of the Timer Microprocessor with new one.

A. While power is ON, short IC7508-4 pin (RESET) and the GND in order to transmit the “RESET (L)” to the reset terminal of Timer Microprocessor (IC7502-11 pin), then the unit operates normally.

7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recog
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
4	Model with the HDD : Perform auto recording and playback for one minute using the HDD	No abnormality should be seen in the pict sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
6	In case of that the trouble is caused by SD/PC card and/or DV terminal.	1) SD/PC card: Check to be able to displa copy the picture. 2) DV terminal: Check to be able to record DVC.
7	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays.
8	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the display. After checking it, turn the power off.
9	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Maku sure that [TEST AV1] appears in the display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

7.2. Adjustment Procedures

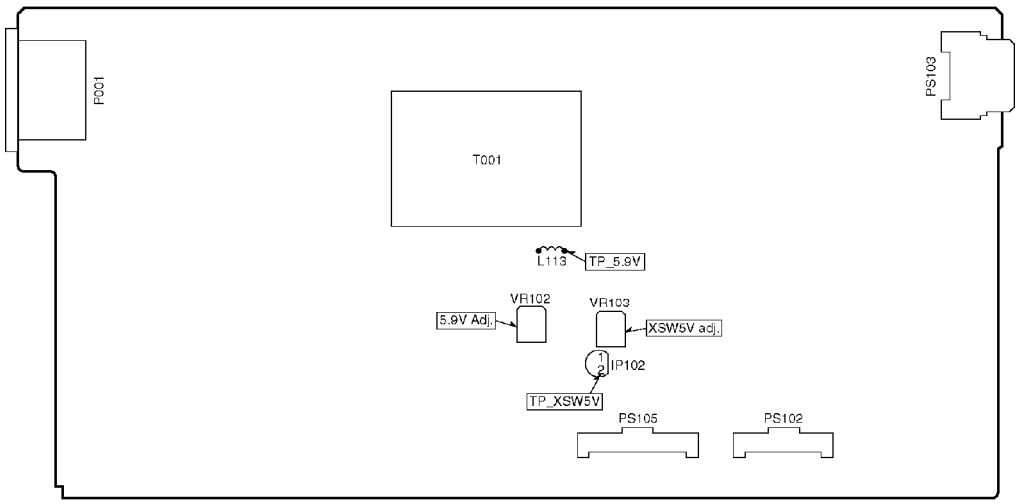
7.2.1. Power Supply Adjustment

1. When change the Power Supply P.C.B. or parts on Power Supply P.C.B., confirm the power voltages are in the specification shown

below. If the voltages are out of specification, adjust the voltages are in the specification as shown below.

Adj. Item	Adj.	Test Point	Adjustment Value
5.9V Adjustment	VR102	5.9V - GND	5.80 ~ 5.95V
XSW5V Adjustment	VR103	XSW5V - GND	5.00 ~ 5.15V

POWER P.C.B. (COMPONENT SIDE)



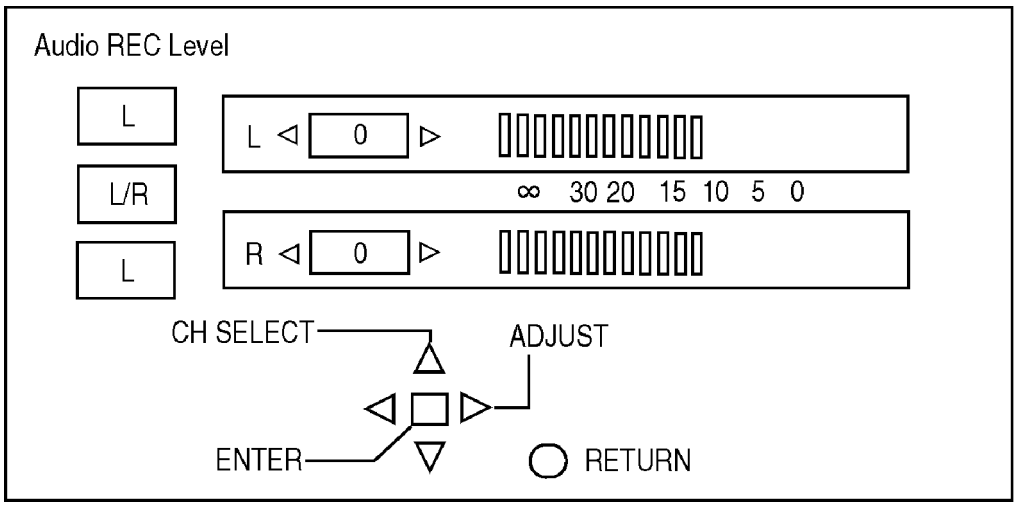
7.2.2. Audio Level Meter Adjustment (Automatically)

1. **Supply 1KHz/-6dBV sine-wave signal to AUDIO “R” and “L” input terminals both of AV4 simultaneously, and set the input channel to L4.**
2. **Enter the service mode.**
   While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.
3. **Press the channel key [8] [9].**
4. **“ADJUSTMTR” is indicated on the FL Display, and then the adjustment is done automatically.**
   FL Indication:

5. **Turn off the power to get out of Service Mode.**

6. Turn on the power again.

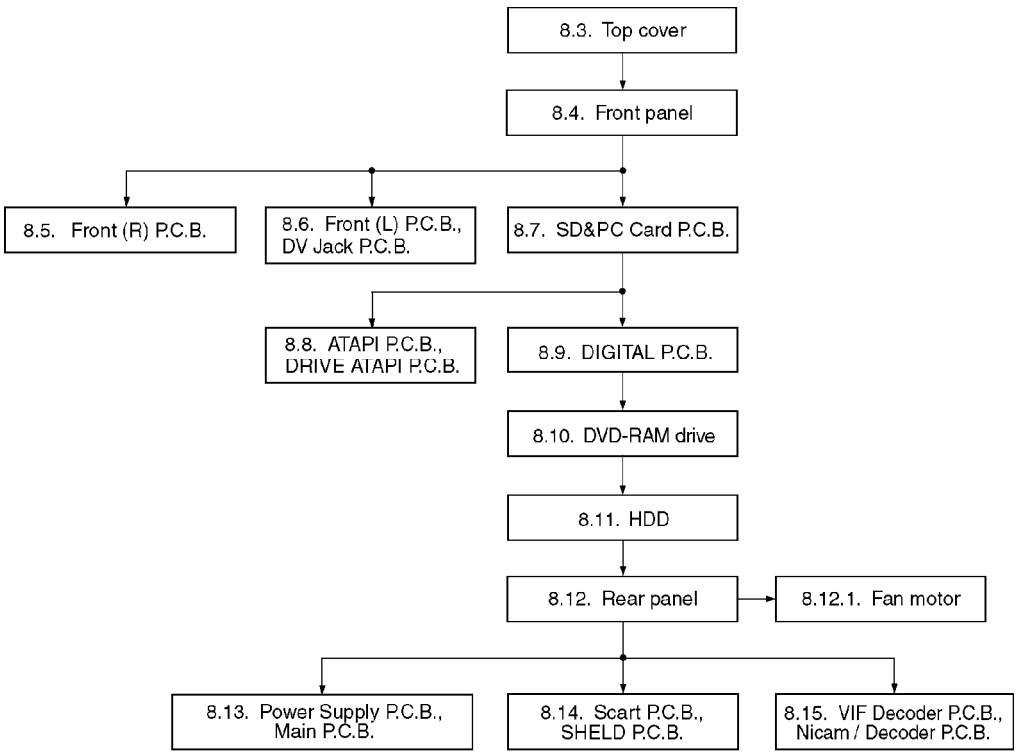
7. Press the AUDIO key on the Remote Controller for 3 seconds to display the AUDIO LEVEL METER on the monitor screen and confirm the indication of AUDIO LEVEL METER is -12dB.



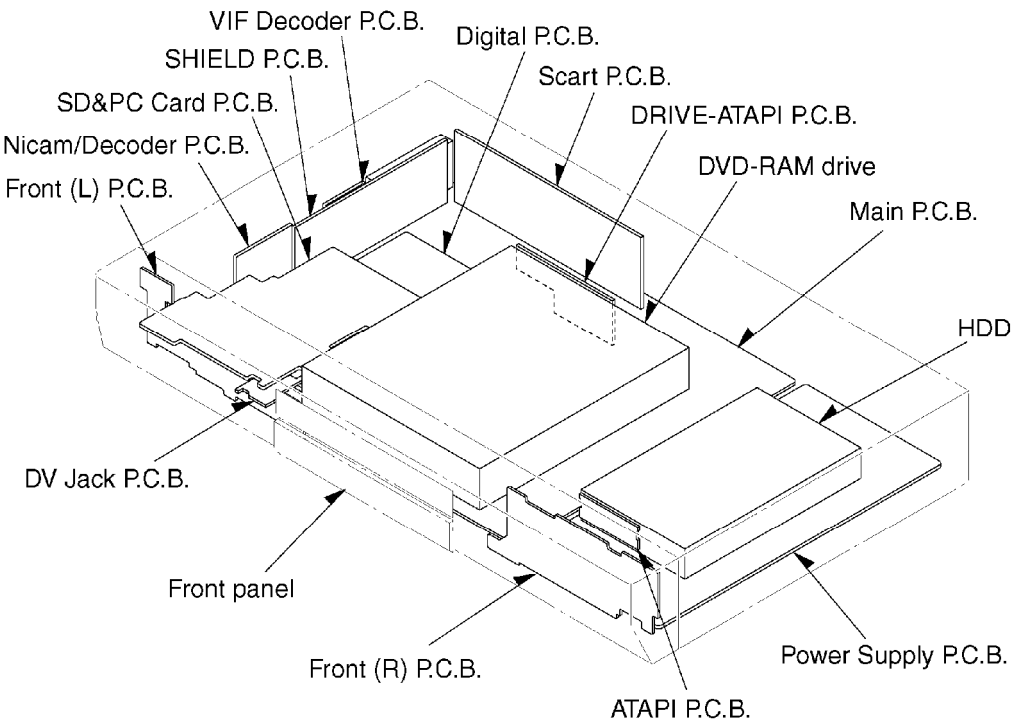
8. Assembling and Disassembling

8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.


8.3. Top cover
8.4. Front panel
8.5. Front (R) P.C.B.
8.6. Front (L) P.C.B., DV Jack P.C.B.
8.7. SD&PC Card P.C.B.
8.8. ATAPI P.C.B., DRIVE ATAPI P.C.B.
8.9. DIGITAL P.C.B.
8.10. DVD-RAM drive
8.11. HDD
8.12. Rear panel
8.12.1. Fan motor
8.13. Power Supply P.C.B., Main P.C.B.
8.14. Scart P.C.B., SHELD P.C.B.
8.15. VIF Decoder P.C.B., Nicam / Decoder P.C.B.

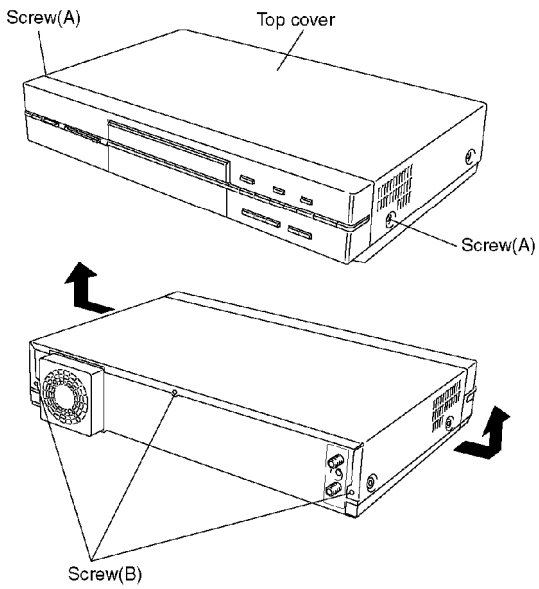
8.2. P.C.B. Positions



8.3. The Top Cover

1. Remove the 2 screw (A) and 3 screw (B).

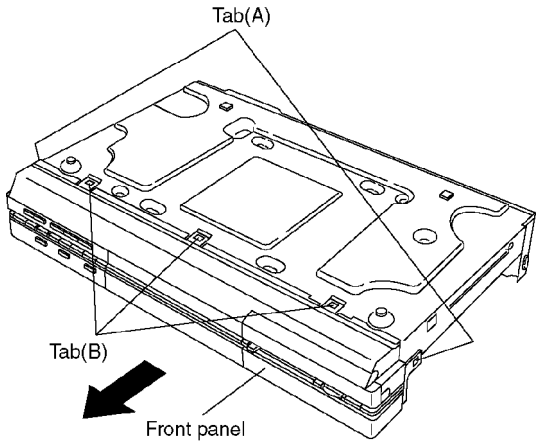
2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.



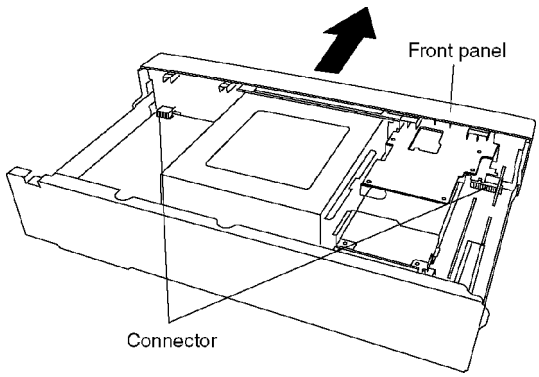
8.4. The Front panel

1. Remove the 2 tab (A) and 3 tab (B) in this order. (The tab (A) and

the tab (B) should be removed at the same time, respectively.)

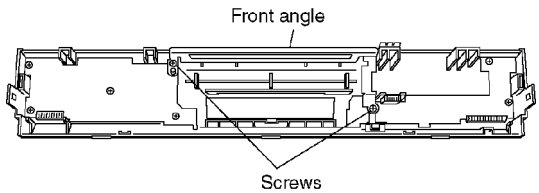


2. Remove the 2 connectors. (Move the front panel to your side slowly and remove it.)

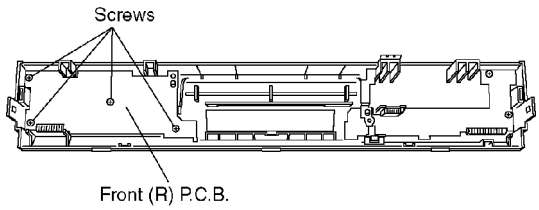


8.5. The Front (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.



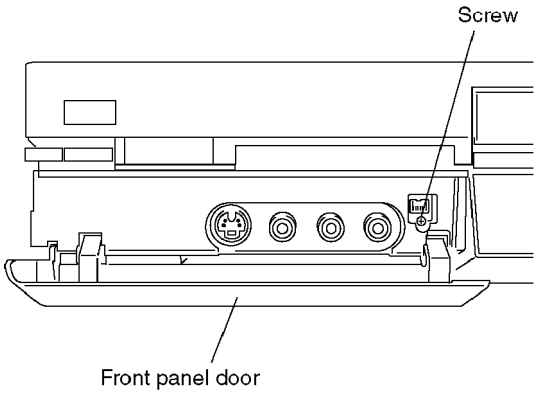
2. Remove the 4 screws and remove the Front (R) P.C.B.



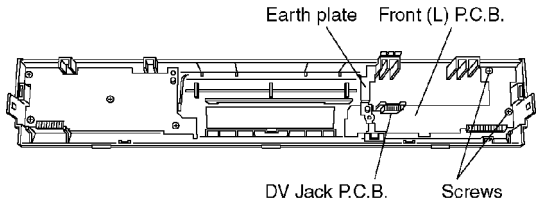
8.6. The Front (L) and DV Jack P.C.B.

1. Remove 1screw inside of the Front panel door with a precision

screw driver.



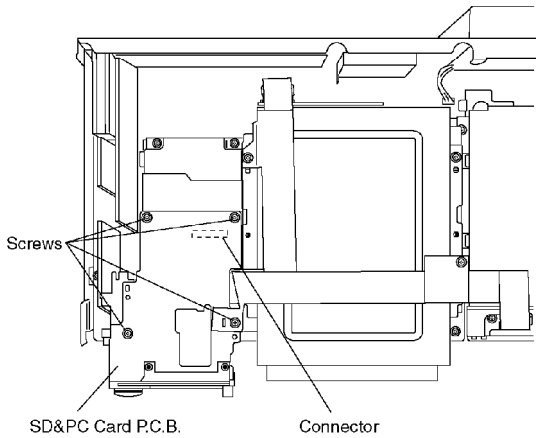
2. Remove the 2 screws with Earth plate and remove the Front (L) and DV Jack P.C.B.



8.7. The SD & PC card P.C.B.

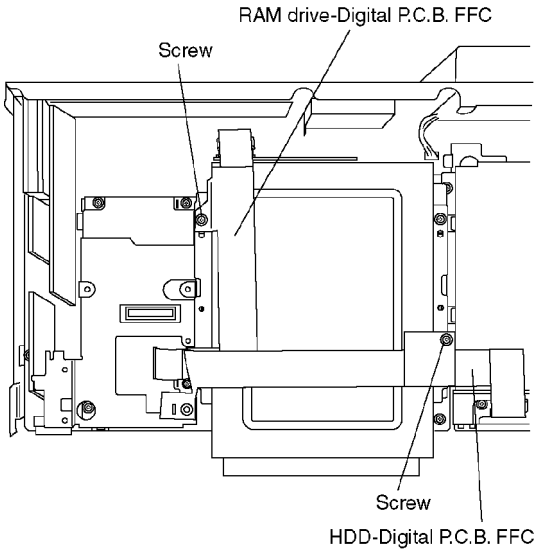
1. Remove the 4 screws.

2. Pull out the SD & PC card P.C.B. vertically.



8.8. The ATAPI and DRIVE-ATAPI P.C.B.

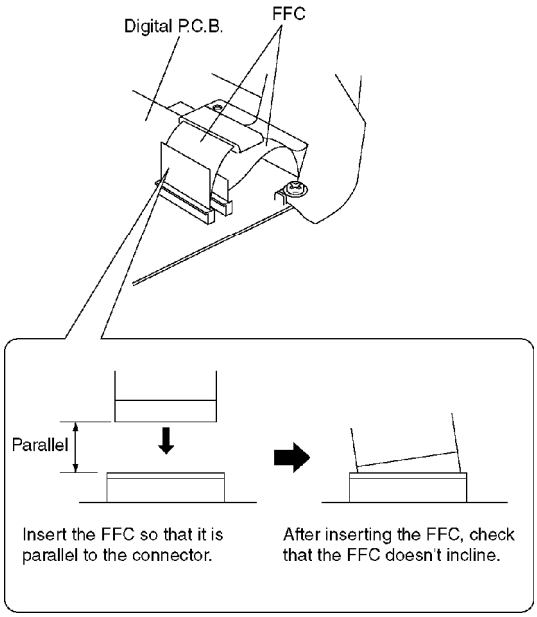
1. Remove the 2 screws.



2. Remove the FFC.

CAUTION:

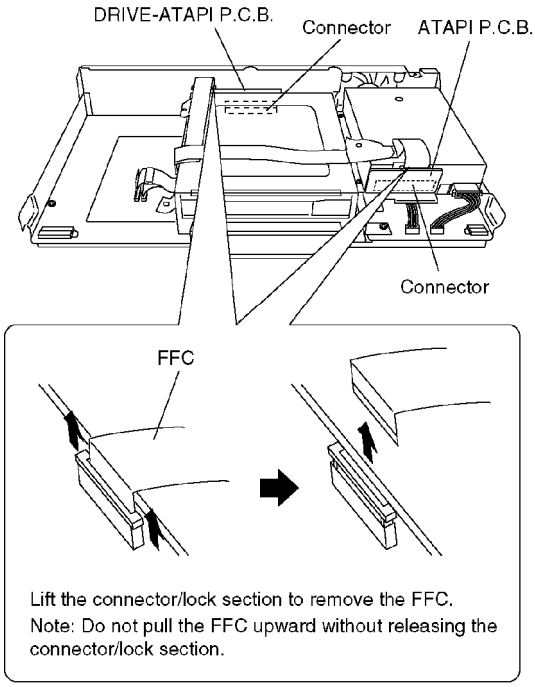
When removing the FFC, pay attention as below.


Digital P.C.B.
FFC
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC doesn't incline.

3. Remove the 2 connectors and remove the FFC.

CAUTION:

When removing the FFC, pay attention as below.



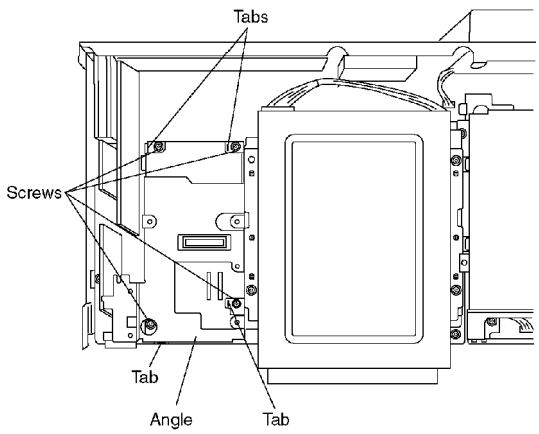
8.9. The Digital P.C.B.

When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.
After that, **programme in the HDD will be lost.**

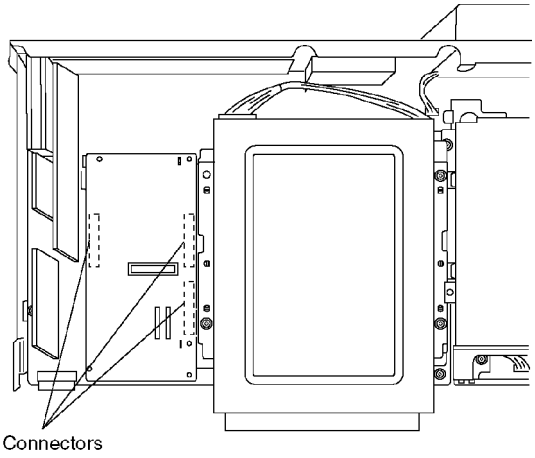
- How to format the HDD -

1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. Remove the 4 screws and 4 tabs and remove the angle.



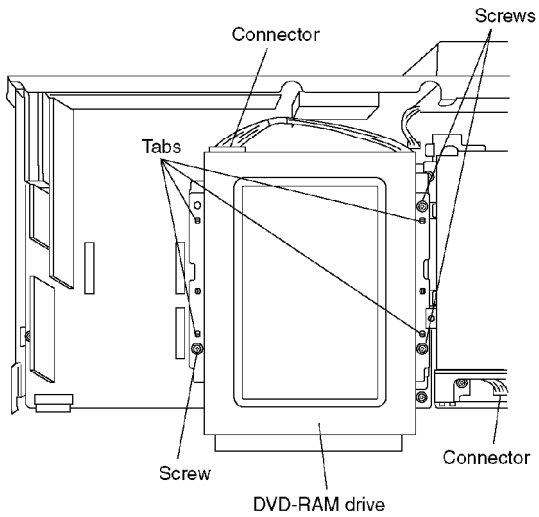
2. Pull out the Digital P.C.B. vertically with paying attention to 3 Connectors.



8.10. The DVD-RAM Drive

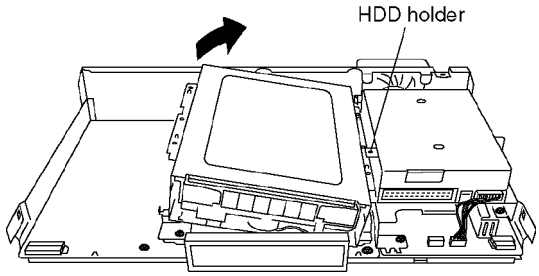
1. Remove the 2 connectors.

2. Remove the 3 screws and remove the 4 Tabs.



CAUTION:

When replacing the DVD-RAM drive, remove the tab as below with paying attention to HDD holder.



8.11. HDD

When replacing with HDD, "UNFORMAT" indication is displayed and HDD must be formatted.

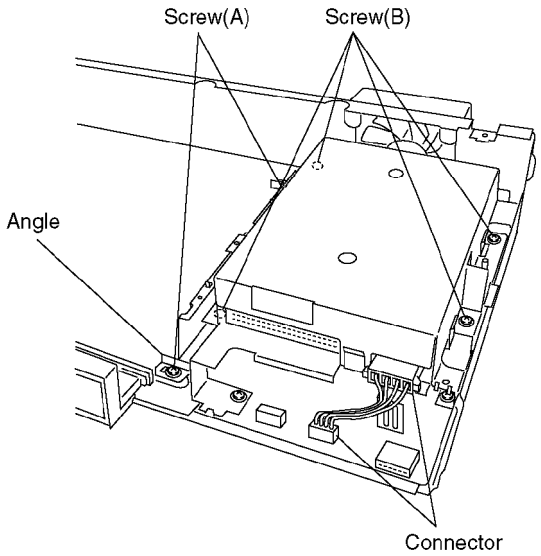
After that, **programme in the HDD will be lost.**

- How to format the HDD -

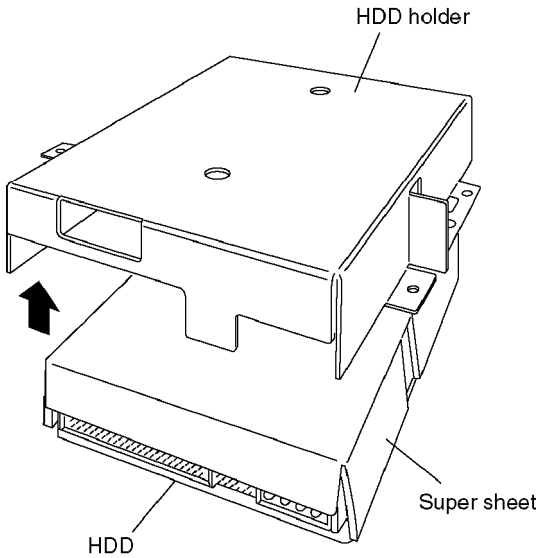
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. Remove the screw (A) with angle and screw (B).



2. Pull out the HDD holder vertically from Super sheet and HDD.



Handling of HDD

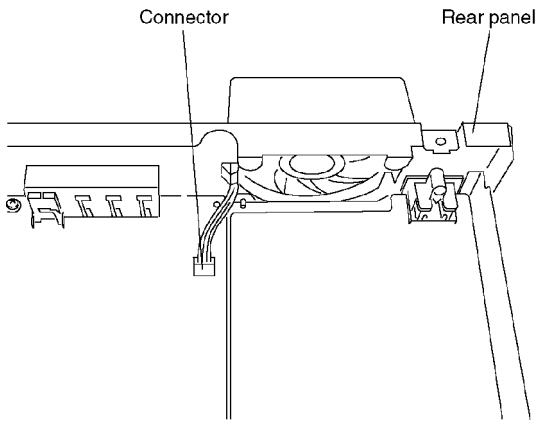
The following precautions should be taken when handling HDD.

1. Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.)
2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.
3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.
4. Avoid stacking up HDD.
5. HDD is unstable and easy to fall. Do not stand it on its side face.
6. When handling HDD, hold its side faces to avoid static hazard.
7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard)
8. Use a screwdriver with low impact and anti-static features.
9. To replace HDD, remove the vertical short-circuit pin.
(Keep the horizontal short-circuit pin in its place)

Note:
When replacing HDD, please make the rear jumper slave configuration.
(same configuration as HDD to exchange)

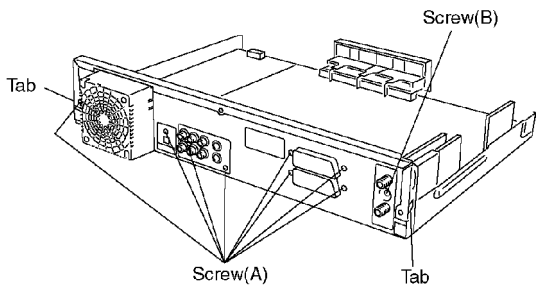
8.12. The Rear panel

1. Remove the Fan Motor connector.



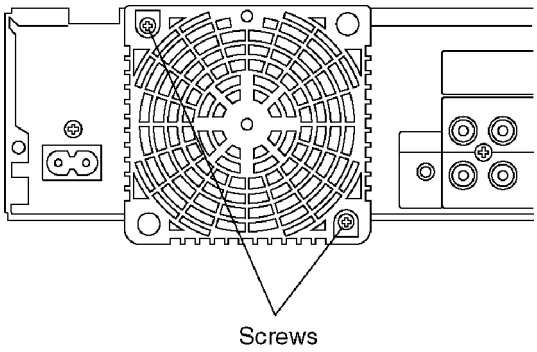
2. Remove the 8 screw (A) and 1screw (B).

3. Remove the 2 tabs and remove the Rear panel.

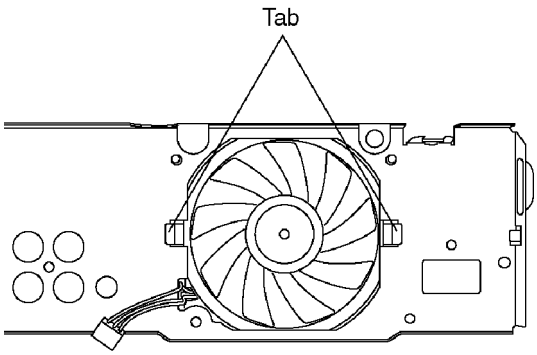


8.12.1. In case of removing Fan motor from Rear panel

1. Remove the 2 screws.



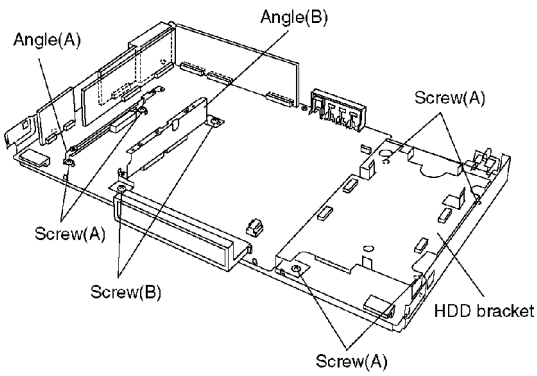
2. Remove the 2 tabs.



8.13. The Power Supply P.C.B. and Main P.C.B.

1. Remove the 6 screw (A) and 2 screw (B).

2. Remove the HDD bracket and angle (A) and angle (B).

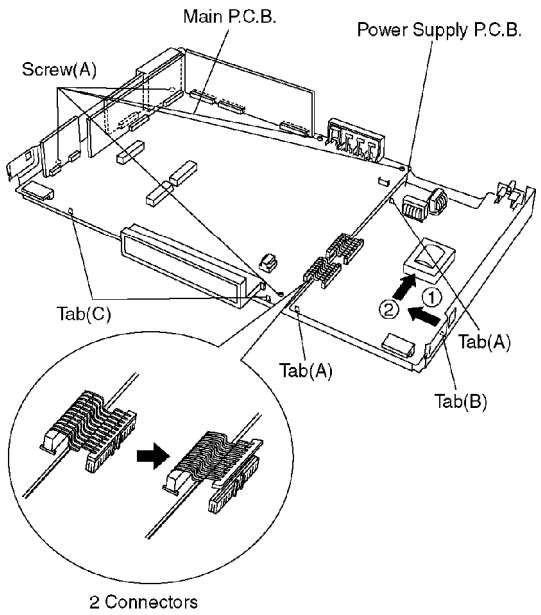


3. Remove the 2 connectors and 2 tab (A).

4. Remove the Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow. ① to ②.

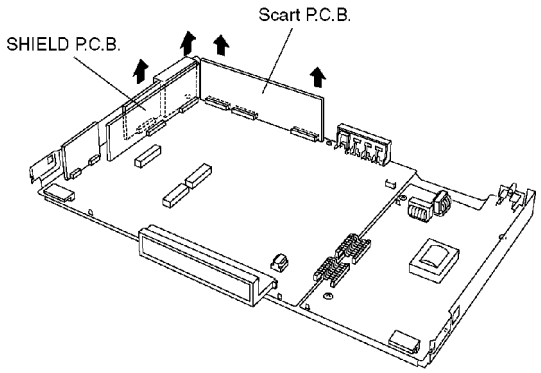
5. Remove the 5 screw (A) and 2 tab (C).

6. Remove the Main P.C.B.



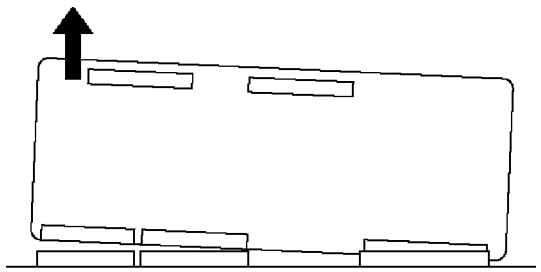
8.14. The Scart P.C.B. and SHIELD P.C.B.

1. Pull out the Scart P.C.B. and SHIELD P.C.B. in the direction of the arrow.



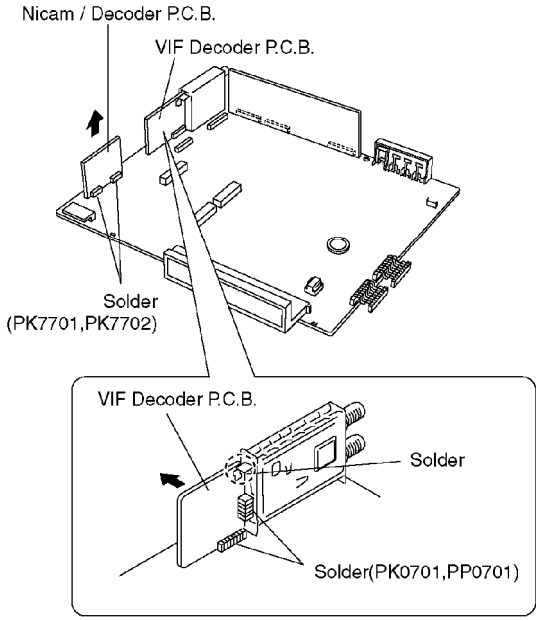
Note:

Pull out the Scart P.C.B. and SHIELD P.C.B. after removing at a slant.



8.15. The VIF Decoder P.C.B. and Nicam/Decoder P.C.B.

1. **Remove the solders.**
2. **Pull out the VIF Decoder P.C.B. and Nicam/Decoder P.C.B. in the direction of the arrow.**



9. Service Positions

9.1. Checking procedure

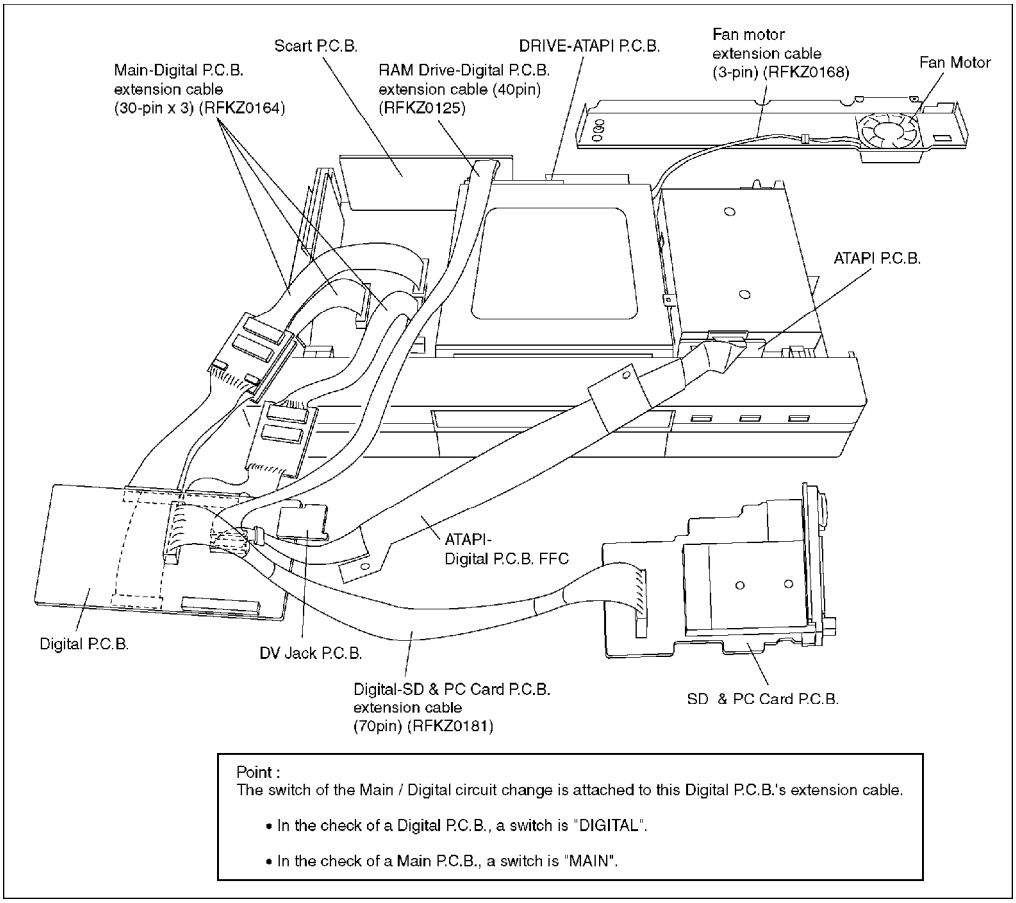
Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Rear Panel.**
3. **Remove the SD & PC Card P.C.B. and angle.**
4. **Remove the FFC (ATAPI - Digital P.C.B.).**
5. **Remove the FFC (DRIVE ATAPI - Digital P.C.B.)**
6. **Remove the Digital P.C.B.**
7. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan motor.**
8. **Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.**

9. Connect the DRIVE ATAPI and Digital P.C.B. with extension cable (RFKZ0125).
10. Connect the ATAPI and Digital P.C.B.
11. Use the extension cable (RFKZ0181) to connect the Digital P.C.B. and SD & PC Card P.C.B.
12. Connect the Digital P.C.B. and DV Jack P.C.B.

Service tools	
Extension Cable (SD&PC Card P.C.B. - Digital P.C.B.)	RFKZ0181 (70pin)
Extension Cable (Main P.C.B. - Digital P.C.B.)	RFKZ0164 (30pin x 3)
Extension Cable (Fan motor)	RFKZ0168 (3pin)
Extension Cable (RAM Drive - Digital P.C.B.)	RFKZ0125 (40pin)


Scart P.C.B.
DRIVE-ATAPI P.C.B.
Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
Main-Digital P.C.B. extension cable (30-pin x 3) (RFKZ0164)
RAM Drive-Digital P.C.B. extension cable (40pin) (RFKZ0125)
ATAPI P.C.B.
ATAPI-Digital P.C.B. FFC
Digital P.C.B.
DV Jack P.C.B.
Digital-SD & PC Card P.C.B. extension cable (70pin) (RFKZ0181)
SD & PC Card P.C.B.
Point :
The switch of the Main / Digital circuit change is attached to this Digital P.C.B.'s extension cable.
• In the check of a Digital P.C.B., a switch is "DIGITAL".
• In the check of a Main P.C.B., a switch is "MAIN".

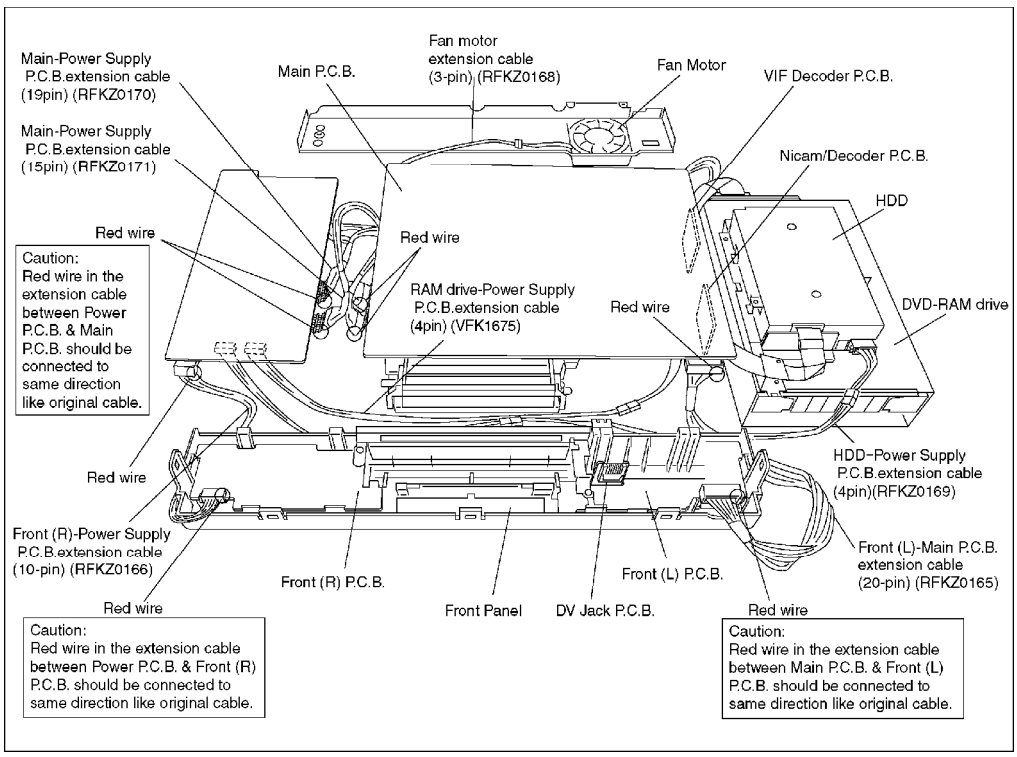
9.3. Checking the Main P.C.B. and FRONT (L), (R) P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive and HDD.**
5. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.**
6. **Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.**
7. **Use the extension cable (VFK1675) to connect the RAM Drive and Power Supply P.C.B.**
8. **Use the extension cables (RFKZ0170, RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B.**
9. **Install to the service positions views.**

10. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.

11. Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front (R) P.C.B.

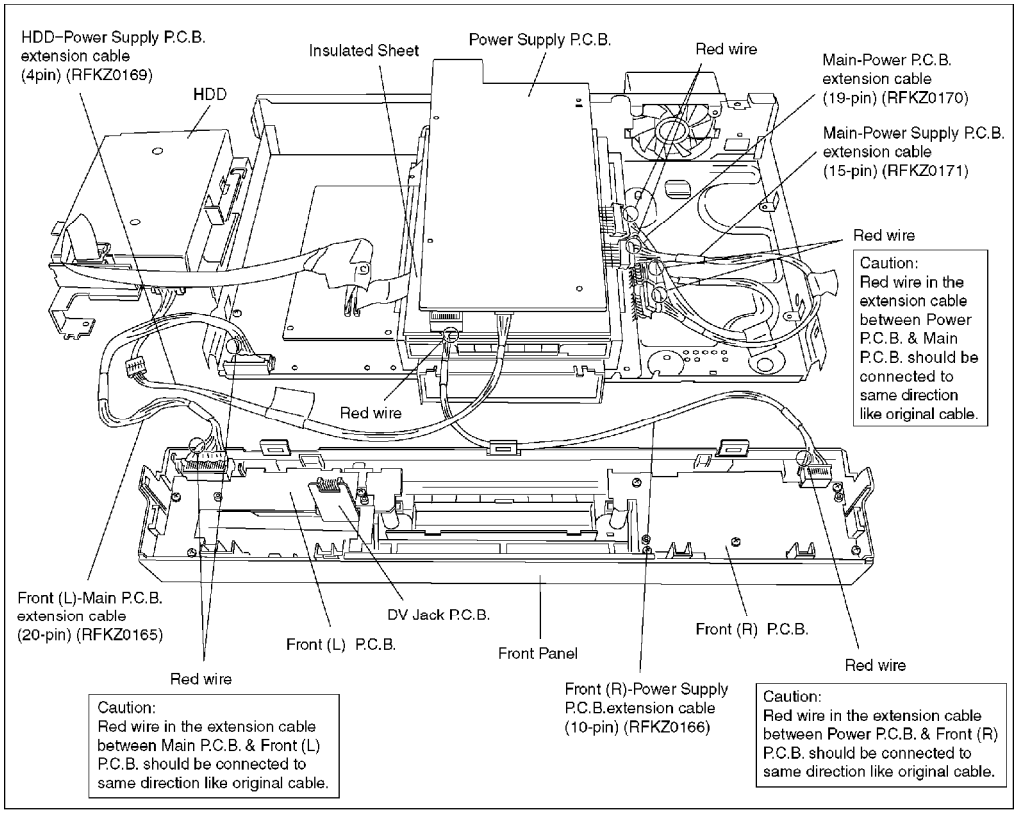
Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0170 (19pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0171 (15pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10pin)**
Extension Cable (Power supply P.C.B. - HDD)	**RFKZ0169 (4pin)**
Extension Cable (Fan motor)	**RFKZ0168 (3pin)**


Main-Power Supply P.C.B.extension cable (19pin) (RFKZ0170)
Main-Power Supply P.C.B.extension cable (15pin) (RFKZ0171)
Main P.C.B.
Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
VIF Decoder P.C.B.
Nicam/Decoder P.C.B.
HDD
DVD-RAM drive
Red wire
Red wire
Caution: Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
RAM drive-Power Supply P.C.B.extension cable (4pin) (VFK1675)
Red wire
HDD-Power Supply P.C.B.extension cable (4pin)(RFKZ0169)
Red wire
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
Front (R) P.C.B.
Front (L) P.C.B.
Front Panel
DV Jack P.C.B.
Red wire
Red wire
Caution: Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.
Caution: Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

9.4. Checking the Power Supply P.C.B.

1. Remove the Top Cover.
2. Remove the Front Panel.
3. Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..
4. Remove the HDD with HDD bracket.
5. Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.
6. Remove the Power Supply P.C.B., fix it on the insulation sheet.
7. Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..
8. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.
9. Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0170 (19pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0171 (15pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10pin)
Extension Cable (Power supply P.C.B. - HDD)	RFKZ0169 (4pin)


HDD–Power Supply P.C.B. extension cable (4pin) (RFKZ0169)
HDD
Insulated Sheet
Power Supply P.C.B.
Red wire
Main-Power P.C.B. extension cable (19-pin) (RFKZ0170)
Main-Power Supply P.C.B. extension cable (15-pin) (RFKZ0171)
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
Red wire
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
DV Jack P.C.B.
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Red wire
Red wire
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

9.5. Specifications for HDD Spin-up/Spin-down

Condition of HDD	Working Spec.	Indications	Ren
Spin-up Spin-down	*When Recording or Playback operation is not performed for over 30 minutes in condition that no disc in the RAM Drive and HDD is spinning, the HDD shifts to Spin-down.	*LED for HDD is ON for 5 seconds. *[LED SLEEP] is indicated on the FL display. *A message for shifting to Spin-down is displayed with OSD screen.	
Spin-down is kept	*Operations of CH UP/DOWN, changing the OSD and so on in EE mode is permitted. *Drive selection and Tray opening are permitted, but HDD is not shifted to Spin-up. *Programmingof the Timer recording is permitted, but HDD does not shifts to Spin-up.	*Center circle (Red + White) is ON when the drive is HDD side. *[HDD SLEEP] is indicated on the FL display all the time. *HDD LED is ON.	

Condition of HDD	Working Spec.	Indications	Ren
Spin-down Spin-up	The HDD shifts to Spin-up by operations shown below. *When the [HDD] key is pressed. *When the playback operation (PLAY, DIRECT NAVIGATOR, PLAY LIST, MARKER) is performed. *Whenthe recording operation (REC, FLEXIBLE REC, PC connection, DV AUTO REC) is performed. *When FUNCTION key is pressed. *When the Tray is closed.	HDD LED is on for about 5 seconds until the HDD starts to spin.	Acceptati [REC] key Spin-dow condition permitted

10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD (Power)	To turn power on or off on the DVD.
TV (Power)	To turn power on or off on the TV.
DVD-TV	To select DVD or TV operation.
HDD	To select the operation for HDD.
DVD	To select the operation for DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/ Show View/ Video Plus+
OPEN/ CLOSE	To open and close the disc tray.
INPUT SELECT	To select the input source.
TV/ VIDEO	To select TV or VIDEO.
Numeric buttons (10key)	To put each number for selecting each function.
CANCEL	To cancel maker.
SKIP (Reverse)/ (Forward)	To skip chapter or marker position for reverse of forward direction.
STOP	To stop the recording or playback.
PAUSE	To still for playback or pause for recording.

Each buttons name	Functions
DIRECT NAVIGATOR/ TOP MENU	DIRECT NAVIGATOR To display menu for recorded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
ENTER	After selecting each menu with cursor buttons, press this button and enter.
FUNCTIONS	To display function menu.
PROG/ CHECK	To display timer porgram menu.
REC	To set the recording.
CH UP/ DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.
SLOW/ SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or review during playback.
PLAY/ X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/ MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
FRAME (Reverse/ Forward)	To set frame advance.
CM SKIP	To skip CM.

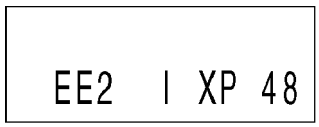
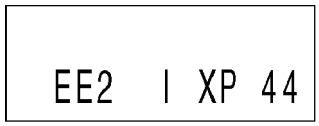
Each buttons name	Functions
TIME SLIP	(HDD, RAM, DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD, RAM, DVD-R) To playback recorded program by setting time duration for each 1minute. *During recording or playback, playback 30seconds previous by pressing the button.
REC MODE	To set recording speed.
STATUS	To display product status, time status & present bit-rate.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
DISPLAY	To select disc,playback,picture & sound status.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

10.2. Special modes at a glance

10.2.1. Service modes

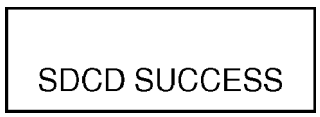
Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service mod
Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F）	[0] [1] while in service mod
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mod
White picture output	White picture output from AV decoder White picture (Chroma: 100%)	Initialization mode (Interlace) WHIT I	[1] [1] while in service m
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%)	Initialization mode (Interlace) MAGE I	[1] [2] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
RTSC return XP (A& V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) 	[1] [3] while in service m
		Audio 44.1kHz/ 48kHz switch 	[2] [4] while in RTSC retur mode *48k ← → 44.1k Toggle swi
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.		[2] [1] while in service m
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).		[2] [2] while in service m
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) 	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. 	[2] [4] while in white picture *48k ← → 44k Toggle switc
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK If the HDD is negative, the OK section will read [NG].	[3] [1] in the service mode. *When canceling the check mode while checking, do “f power-off”. Method: Press the “POWER” button unit more than 10 seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Laser use time display	**To check laser use time of drive**	LASER ✱✱✱✱ ✱ (✱)displays the time (in hours). ✱ The last working time is incremented in both the DVD/CD Play and Record modes.	**[4] [1] while in service m**
RAM drive last error	**RAM drive error code display.** ***For details about the drive error code, refer to the manual for the specific RAM drive.**	✱✱ ✱✱✱✱ ✱✱ ✱✱ ✱✱ (1) (2) (3) (4) (5) ✱ (1)Sense key ✱ (2)Additional sense code ✱ (3)Host detail ✱ (4)Access detail ✱ (5)Mecha detail ✱ This information is saved to EEPROM on the RAM drive.	**[4] [2] while in service m**
Laser error count	**The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.**	LASERERR ✱ ✱ (✱)is the number of times a laser error occured. ✱ This information is saved to EEPROM on the RAM drive.	**[4] [3] while in service m**
Factors which cause drive error	**The disc condition is displayed when an error occures.**	INFO ✱✱ ✱✱ ✱✱ (1) (2) ✱ (1)Error disc type. ✱ (2)Status of error disc. ✱ The details can be checked using the separate table. ✱ This information is saved to EEPROM on the RAM drive.	**[4] [4] while in service m**
Disc manufacture ID	**Display the manufacture's ID for a disc on which a drive error has occured.**	✱✱✱✱✱✱✱✱✱✱✱✱ The display example can be checked using the separate table.	**[4] [5] while in service m**
Illumination of all FL /LEDs	**All FL and LEDs are lit up.**	Illumination of all FL/LED's	**[5] [1] while in service m**
PB8 HIGH signal output	**8pin of RGB output is high.**	PB8 HIGH	**[5] [2] while in service mod**

Item		FL display	Key operation
Mode name	Description		Remote controller ke
PB8 MIDDLE signal output	8pin of RGB output is middle.	PB8 MIDDLE	[5] [3] while in service mod
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B..	0 0 14 (1) (2) *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	[5] [4] while in service m
AV4-AV1 (RGB) SELECT	Video signal at AV4 should output with AV1.	AV4_V-AV 1RGB	[8] [0] while in service mod
AV2-AV1 (VIDEO)	Video signal at AV2 should output with AV1.	AV2_YC-AV 1_V	[8] [1] while in service mod
AV2-AV1 (Y/C)	Video signal at AV2 should output with AV1.	AV2_V-AV 1_YC	[8] [2] while in service mod
AV2-AV1 (RGB)	Video signal at AV2 should output with AV1.	AV2RGB-AV 1_V	[8] [3] while in service mod
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE **** *FL display of the CYCLE count out.	[9] [1] while in service mod *Canceling the setting is to "forced power-off." Method: Press the "POWER" button unit more than10 seconds.
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m

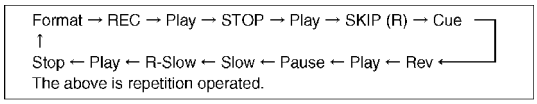
Item		FL display	Key operation
Mode name	Description		Remote controller ke
PC card WRITE check	Check WRITE function using the media and PC card adaptor with PC card slot.	When the WRITE check is OK. When the WRITE check is NG. *Note:Theimage stored in the media is erased.	Insert PC card adaptor with media to PC card slot, and [7] [1] in service mode. *Insert PC card adaptor wit media while the power is of *Check for [CARD] onthe FI display and go on the proce
PC card READ check	Check READ function using the media with image and PC card adaptor with PC card slot.	When the READ check is OK. Image stored in the media is displayed on the monitor TV. When the WRITE check is NG. 	Insert PC card adaptor with media to PC card slot, and [7] [2] in service mode. *Insert PC card adaptor wit media while the power is of *Check for [CARD] onthe FI display and go on the proce
SD card WRITE check	Check SD card WRITE function with SD card slot.	When the WRITE check is OK.  When the WRITE check is NG. *Note: Theimage stored in the SD card is erased.	Insert SD card to SD card s and press [7] [4] in service *Insert SD card while the pc is off. *Check for [CARD SD] on th display and go on the proce

10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Front key
TEST Mode	*All the main unit's parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST AV1	When the power is off, pres SKIP(R), TIME SLIP and OPI CLOSE simultaneously for seconds.
Rating password	The audiovisual level setting password is canceled.	---	Press SKIP (R) and (F) with open during Power on.
Demonstration lock/ unlock	Ejection of the disc is prohibited.	LOCK *When lock the tray: "LOCK" is displayed for 3 seconds. When unlock the tray: "UNLOCK" is displayed for 3 seconds. Pressthe OPEN/CLOSE key while the tray is locked, "LOCK" is displayed for 3 seconds	With the power-on, press S and POWER simultaneousl five seconds.
Forced disc eject	Removing a disc that cannnot be ejected.	---	When the power is off, pres STOP and CH_UP simultaneously for five sec
Aging	See the * Aging Description below.	---	When the power is off, pres TIME SLIP + OPEN / CLOSE CH DOWN simultaneously five seconds.
Forcible Power-off	When P-off function is not effective, turn the power to off forcibly.	---	Press "POWER" for 10 sec
Audiovisual ID cancel	The audiovisual level setting password is canceled.	---	(Remote control) Set th audiovisual limit level to "8 set the ID number to "00

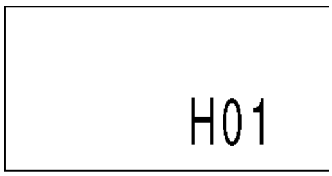
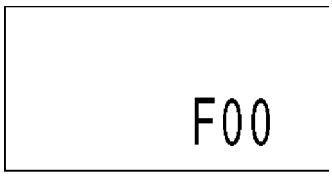
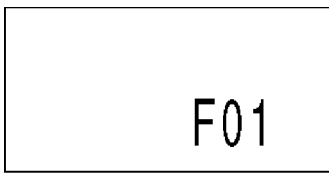
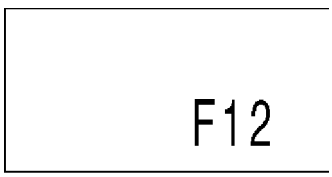
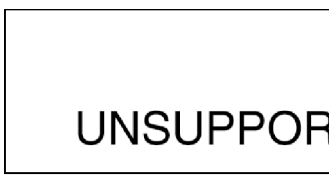
Item		FL display	Key operation
Mode name	Description		Front key
Child lock release	Release “Child Lock”.	X-HOLD	Press ENTER and RETURN remote controller simultane until [X-HOLD] is displayed
NTSC/PAL system select	To switch PAL/ NTSC alternately.	---	Press STOP and OPEN/CLC simultaneously for five sec on the EE mode (power is C

*** Aging Description**



10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	REMOTE DVD
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	U14 Displayed from the time of detection and while key en disabled after power-off (3 minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	U99 Remains displayed.

Display	Diagnosis	Description	FL display
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	

Display	Diagnosis	Description	FL display
RECOVER	Restoration operation	**Since the power cord fell out during a power failure or operation, it is under restoration operation.** ***It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.**	

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contents			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK

INITIAL/LOGO		ABBREVIATIONS
C	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP

		GROUP

INITIAL/LOGO		ABBREVIATIONS
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE
	PCK	DIFFERENCE
	PDVD	PLL CLOCK
	PEAK	DVD TRACKING PHASE
	PLLCLK /	DIFFERENCE
	PLLOK	CAP. FOR PEAK HOLD
	PWMCTL	CHANNEL PLL CLOCK
	PWMDA	PLL LOCK
	PWMOA, B	PWM OUTPUT CONTROL
		PULSE WAVE MOTOR DRIVEA
		PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE

INITIAL/LOGO		ABBREVIATIONS
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	VSS	VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Scart P.C.B.

12.4. Nicam/Decorder P.C.B.

12.5. Front (L) P.C.B.

12.6. Front (R) P.C.B.

12.7. PS9001, PS9002, PS9003 Connectors
12.8. PP9701, PP9702 Waveform
13. Block Diagram
13.1. Power Supply Block Diagram
13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 24)
13.2. Analog Video Block Diagram
13.3. Analog Audio Block Diagram
13.4. Timer Block Diagram
13.5. Digital Section Block Diagram
13.5.1. Digital Video Section Block Diagram
13.5.2. Digital Audio Section Block Diagram
13.5.3. Digital Block IC Pin Terminal Chart (TC1-TC37)
14. Schematic Diagram
14.1. Interconnection Schematic Diagram
14.2. Main Power Supply Schematic Diagram
14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)
14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)
14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)
14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)
14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)
14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)
14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)
14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)
14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)

14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)

14.17. ATAPI Schematic Diagram

14.18. Drive ATAPI Schematic Diagram

14.19. Scart Schematic Diagram

14.20. VIF Decorder Schematic Diagram

14.21. Nicam/Decorder Schematic Diagram

14.22. SD & PC Card Schematic Diagram

14.23. Front (L) Schematic Diagram

14.24. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

15.2.4. Main P.C.B. (Section 4/4)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

15.3.2. Digital P.C.B. & DV Jack P.C.B. (Section 2/2)

15.3.3. Digital P.C.B. Address Information

15.4. Drive ATAPI & ATAPI P.C.B.

15.5. Scart P.C.B.

15.5.1. Scart P.C.B. (Section 1/2)

15.5.2. Scart P.C.B. (Section 2/2)

15.6. VIF Decorder P.C.B.

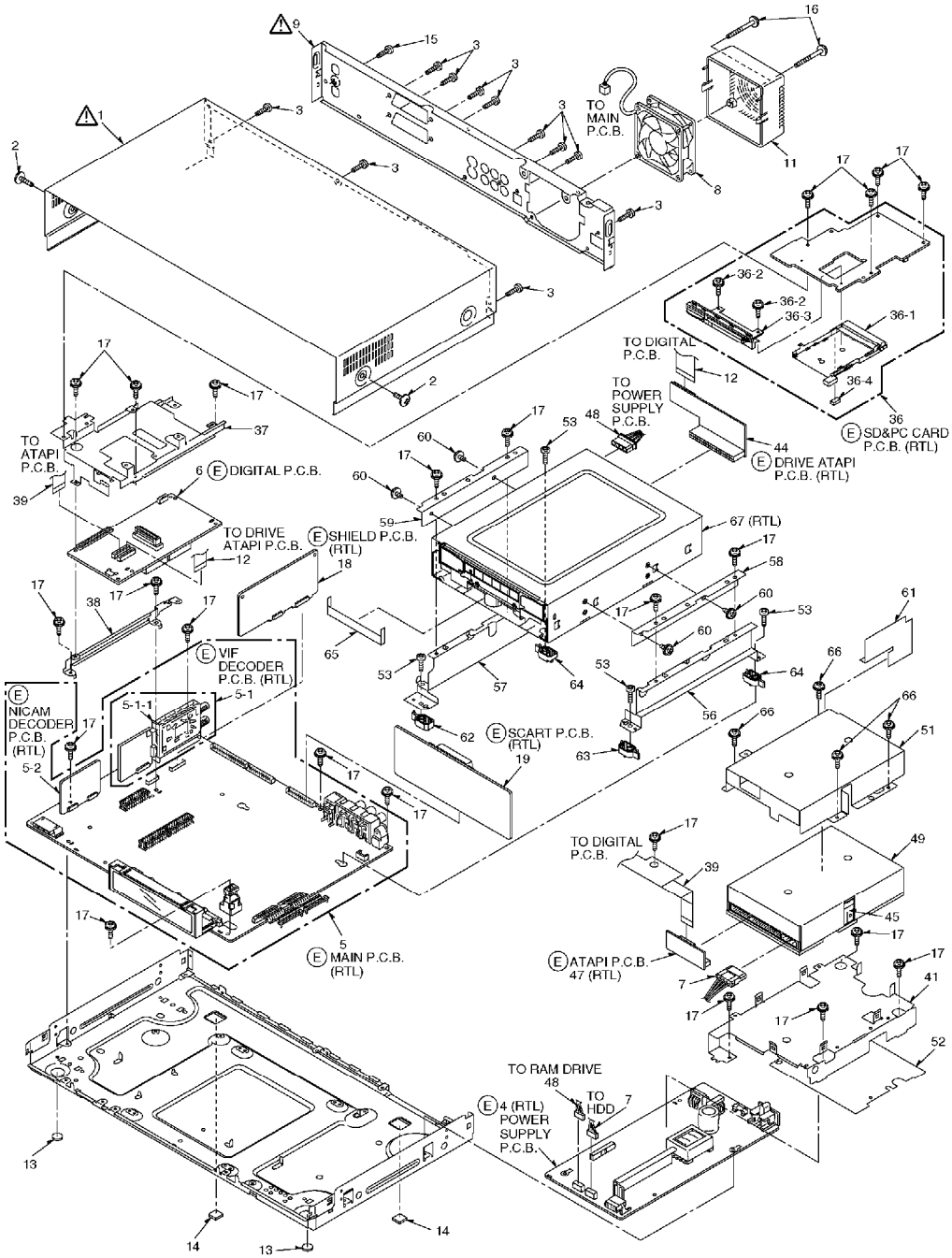
15.7. Nicam/Decorder P.C.B.

15.8. SD & PC Card P.C.B.

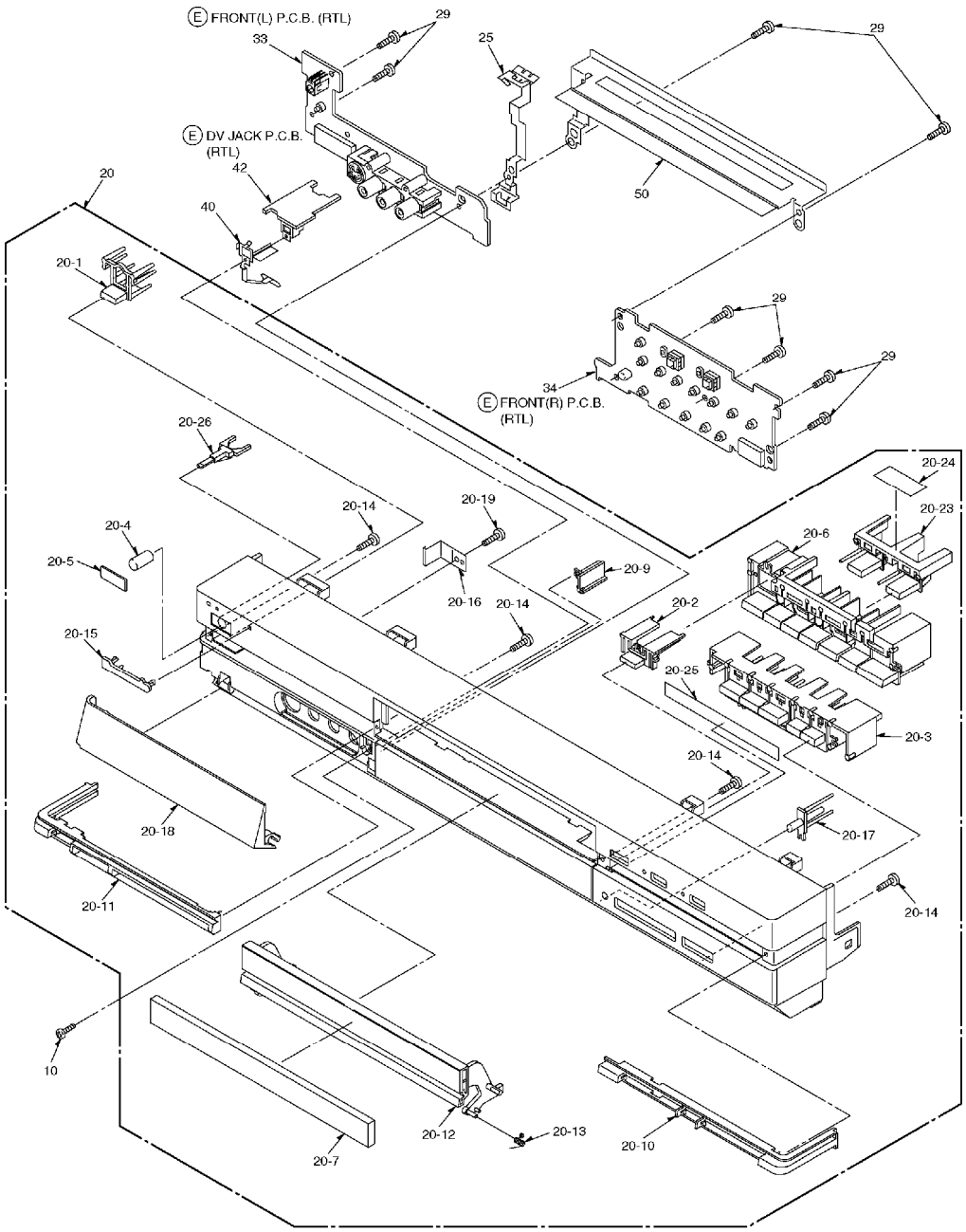
15.9. Front (L) & (R) P.C.B.

16. Exploded Views

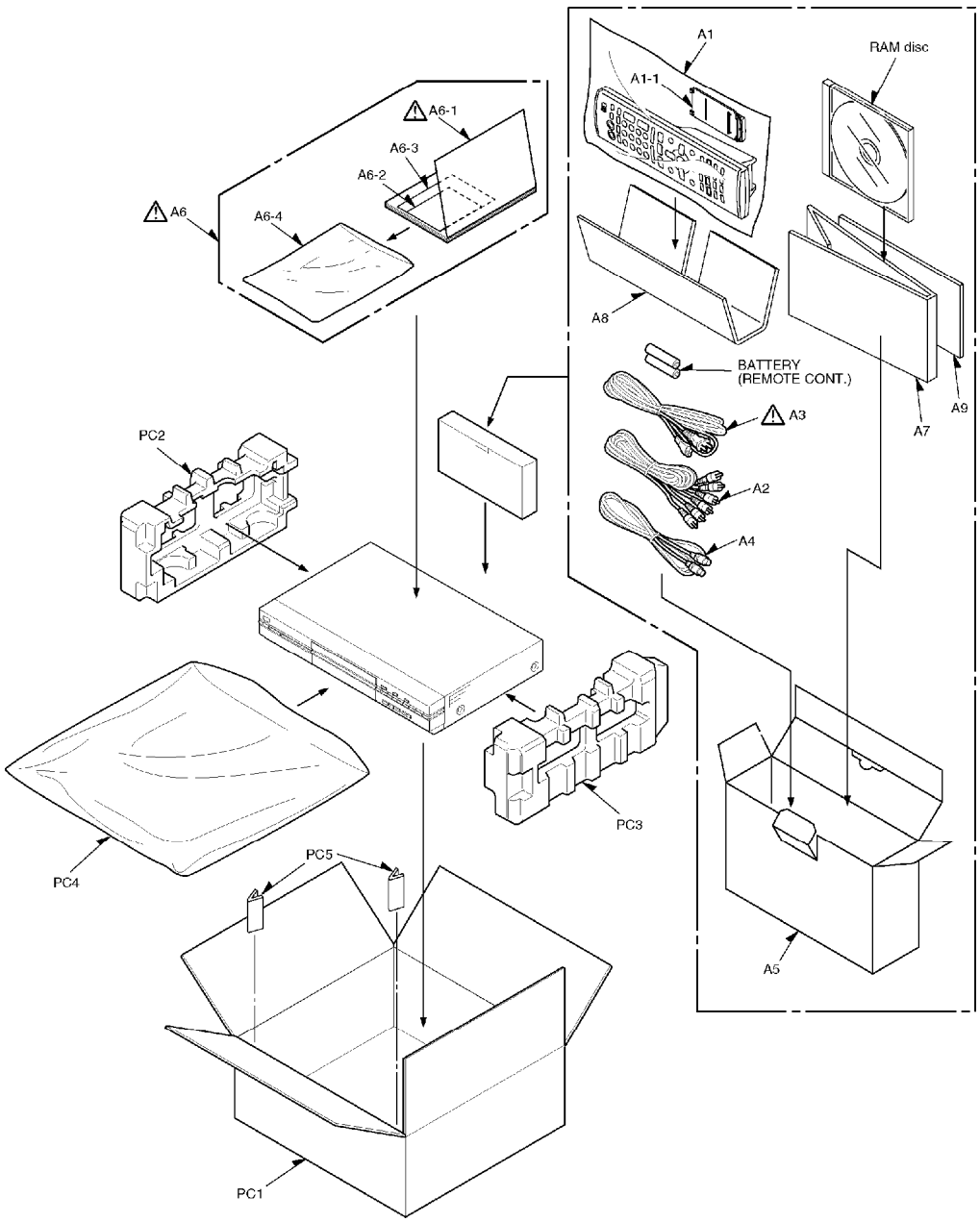
16.1. Casing Parts & Mechanism Section 1



16.2. Casing Parts & Mechanism Section 2



16.3. Packing & Accessories Section



17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***"<IA>"-"<IE>", marks in Remarks indicate languages of instruction manuals. [<IA>: English/ Spanish, <IB>: German/ Italian, <IC>:English, <ID>: French/ Netherlands, <IE>: Swedish/ Danish]**
All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	⚠
1	RKM0485Z-S	TOP COVER	1	⚠
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	11	
4	ETXMM426E4G	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3532G	MAIN P.C.B.	1	(RTL)(EB)
5	REP3532F	MAIN P.C.B.	1	(RTL)(EG)
5-1	VEP07A23Z	VIF DECODER P.C.B.	1	(RTL)(EB)
5-1	VEP07A23Y	VIF DECODER P.C.B.	1	(RTL)(EG)
5-1-1	VMP5897	VIF ANGLE	1	
5-2	VEP07A51A	NICOM DECODER P.C.B.	1	(RTL)
6	REP3584CD	DIGITAL P.C.B.	1	(EB)
6	REP3584C	DIGITAL P.C.B.	1	(EG)
7	VEE0Z16	WIRE WITH CONNECTOR(4P)	1	
8	L6FALCCE0004	FAN MOTOR	1	
9	RGR0337K-B	REAR PANEL	1	(EB) ⚠
9	RGR0337K-A	REAR PANEL	1	(EG) ⚠
10	XQN16+B4FN	SCREW	1	
11	RMN0751	FAN COVER	1	
12	VEK0D78	FFC(40P)	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	2	
17	XTN3+7F-C	SCREW	24	
18	REP3594A	SHIELD P.C.B.	1	(RTL)
19	REP3533A	SCART P.C.B.	1	(RTL)
20	RYP1203C-S	FRONT PANEL ASS'Y1	1	(EB)
20	RYP1203B-S	FRONT PANEL ASS'Y1	1	(EG)
20-1	RGU2185B-K	POWER BUTTON	1	
20-2	RGU2228-S	OPEN BUTTON	1	
20-3	RGU2213-S	PLAY BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2229-K	CHANNEL BUTTON	1	
20-7	RYF0700-S	TRAY ORNAMENT ASS'Y	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1675-K	FRONT ORNAMENT(R)	1	
20-11	RGK1674A-K	FRONT ORNAMENT(L)	1	
20-12	RKF0671-K	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0577	DOOR SPRING	1	
20-17	RGL0633-Q	PANEL LIGHT	1	
20-18	RYF0678C-S	PANEL DOOR ASS'Y	1	(EB)
20-18	RYF0678B-S	PANEL DOOR ASS'Y	1	(EG)
20-19	XTBS26+8J	SCREW	1	
20-23	RGU2230-W	DVD/HDD BUTTON	1	
20-24	RMZ0724	PANEL SHEET	1	
20-25	RMX0253	DAMPER SHEET	1	
20-26	RGL0626-Q	POWER PIECE	1	
25	RMC0549	EARTH PLATE	1	
29	XTBS26+10J	SCREW	8	
33	REP3598BB	FRONT(L)P.C.B.	1	(RTL)
34	REP3598AA	FRONT(R)P.C.B.	1	(RTL)
36	REP3540EA	SD & PC CARD P.C.B.	1	(RTL)
36-1	VXA7527	PC CARD SLOT	1	
36-2	XYN2+F6	SCREW	2	
36-3	RYQ0445A-A	CARD HOLDER ASS'Y	1	
36-4	RMX0266	GASKET	1	
37	RMA1650	PC CARD ANGLE	1	
38	RMA1651	DIGITAL ANGLE(L)	1	
39	VEK0E37	FFC(40P)	1	
40	RMC0550	DV EARTH	1	
41	RMA1675	HDD BRACKET	1	
42	REP3540AB	DV JACK P.C.B.	1	(RTL)
44	REP3604A	DRIVE ATAPI P.C.B.	1	(RTL)
45	N3CBBTM00005	HARD DISC DRIVE ASS'Y	1	
47	REP3542A	ATAPI P.C.B.	1	(RTL)
48	VEE0Y55	WIRE WITH CONNECTOR(4P)	1	
49	RXQ1073-1	SUPER SHEET	1	
50	RMA1669	FRONT ANGLE	1	
51	RMA1674	HDD HOLDER	1	
52	RMZ0700	INSULATED SHEET	1	
53	RHD30109	SCREW	4	
56	RMA1670	MECHA ANGLE(R)	1	
57	RMA1671	MECHA ANGLE(L)	1	
58	RMA1673	MECHA ATTACHMENT(R)	1	
59	RMA1672	MECHA ATTACHMENT(L)	1	
60	XYN3+F6	SCREW	4	
61	RMV0261	BARRIER	1	
62	RMX0255	MECHA SPACER(A)	1	
63	RMX0256	MECHA SPACER(B)	1	
64	RMX0257	MECHA SPACER(C)	2	
65	VSC5562	FRONT SHIELD PLATE	1	
66	XTW3+6M	SCREW	4	
67	VXY1789	RAM DRIVE UNIT	1	(RTL)
A1	EUR7624KD0	REMOTE CONTROL ASS'Y	1	(EB)
A1	EUR7624KC0	REMOTE CONTROL ASS'Y	1	(EG)
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	RJA0053-3X	AC CORD	1	(EB) ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A3	VJA0664	AC CORD	1	K2CR2DA00004 (EG) ⚠
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0250	ACCESSORY CASE	1	
A6	RQF5224	FAN BAG ASS'Y	1	(EB) ⚠
A6	RQF5223	FAN BAG ASS'Y	1	(EG) ⚠
A6-1	RQT7099-E	OPERATING INSTRUCTIONS	1	(EG)<IA> ⚠
A6-1	RQT7100-D	OPERATING INSTRUCTIONS	1	(EG)<IB> ⚠
A6-1	RQT7103-B	OPERATING INSTRUCTIONS	1	(EB)<IC> ⚠
A6-1	RQT7101-H	OPERATING INSTRUCTIONS	1	(EG)<ID> ⚠
A6-1	RQT7109-Z	OPERATING INSTRUCTIONS	1	(EG)<IE> ⚠
A6-2	RQCA1110	DISC CAUTION SHEET	1	(EB)
A6-2	RQCA1073	DISC CAUTION SHEET	1	(EG)
A6-3	RQCA1171	SD~PC/HDD CAUTION SHEET	1	(EB)
A6-3	RQCA1172	SD~PC/HDD CAUTION SHEET	1	(EG)
A6-3	RQCA1173	SD~PC/HDD CAUTION SHEET	1	(EG)
A6-3	RQCA1174	SD~PC/HDD CAUTION SHEET	1	(EG)
A6-3	RQCA1175	SD~PC/HDD CAUTION SHEET	1	(EG)
A6-4	RPF0378	POLYETHYLENE BAG(F.B.)	1	(EB)
A7	RPQ1569	PAD(A)	1	
A8	RPQ1594	PAD(C)	1	
A9	RPQ1570	PAD(B)	1	
PC1	RPG6543	PACKING CASE	1	(EB)
PC1	RPG6542	PACKING CASE	1	(EG)
PC2	RPN1652A	CUSHION(L)	1	
PC3	RPN1652B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
PC5	RPQ1669	PAD PC	2	(EG)
■	02	ETXMM426E4G		
C001	KH101K	100P	1	⚠
C002	KH102M	1000P	1	⚠
C003	ECQU2A104ML	0.1U	1	⚠
C004	ECQU2A224ML	0.22	1	⚠
C005	KH101K	100P	1	⚠
C006-08	KH102M	1000P	3	⚠
C009	KMM2W470JZ	450V 47	1	
C010-12	MBB105K1	16V 1U	3	
C013	MBC102J5	50V 1000P	1	
C014	MBC681J5	50V 680P	1	
C016	CD222M	2200P	1	⚠
C017	MBB103K5	25V 0.01U	1	
C018	MBB105K1	16V 1U	1	
C019	MBB104K5	50V 0.1	1	
C020	RR3AD102K	1KV 1000P	1	
C022	KY1V330Z	35V 33U	1	
C023	DE2SL680J	2KV 68P	1	
C102	MBC102J5	50V 1000P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C104	KMG1H2R2	50V 2.2	1	
C106	KY1A122	10V 1200U	1	
C107	ECA1AHG102	10V 1000U	1	
C109	KY1E681L	25V 680	1	
C112	KY1A471	10V 470U	1	
C114,15	MBB105K1	16V 1U	2	
C116	ECQB1H221KF	50V 220P	1	
C118	MBB104K2	25V 0.1U	1	
C119	ECQB1H333JF	50V 0.033U	1	
C120	MBB104K2	25V 0.1U	1	
C121	ECA1AHG102	10V 1000U	1	
C122	KY1E470	25V 47	1	
C123	KY0J152	6.3V 1500U	1	
C125	KY1A221	10V 220U	1	
C126	KY1A471	10V 470U	1	
C127	KY1E470	25V 47	1	
C129	MBC101K2D	200V 100P	1	
C132	KY1A122	10V 1200U	1	
C133	ECQV1H105JL	50V 1U	1	
C134	MBB224K1	16V 0.22U	1	
C140	KY1C471	16V 470	1	
C142	KY1E331	25V 330U	1	
C301	MBC102J5	50V 1000P	1	
C302	MBB104K2	25V 0.1U	1	
C304	MBB333K5	50V 0.033U	1	
C306	MBB105K1	16V 1U	1	
C307	MBB104K2	25V 0.1U	1	
C308	MBB105K1	16V 1U	1	
C309-11	MBB104K2	25V 0.1U	3	
C312-14	ECJ2FB1H473K	50V 0.033	3	
C315	ECJ2XB1H333K	50V 0.033	1	
C317	MBC102J5	50V 1000P	1	
D001	S1WBA60S	DIODE	1	B0KA00000014 ⚠
D002	MA111TX	DIODE	1	MA2J11100L
D004	MA111TX	DIODE	1	MA2J11100L
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	ERA38-05	DIODE	1	
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	FCQ20A6	DIODE	1	
D105	RK49	DIODE	1	B0JAPK000005
D106	FCQ20A6	DIODE	1	
D107,08	MA165TA5	DIODE	2	MA2C16500E
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	MA111TX	DIODE	2	MA2J11100L
D121,22	MA165TA5	DIODE	2	MA2C16500E
D125	MA165TA5	DIODE	1	MA2C16500E
D301,02	MA111TX	DIODE	2	MA2J11100L
D304-07	MA111TX	DIODE	4	MA2J11100L
F001	19181-2A	FUSE	1	⚠
F101,02	19396-2.5A	FUSE	2	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC104	AN1431T	IC	1	
IC105	KA378R12C	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠
L001,02	ELF15N005A	NOISE FILTER	2	⚠
L003	V35VB680K	COIL	1	
L004,05	EXCELDR35	FILTER	2	
L101	EXCELSA24	FILTER	1	
L105-07	EXCELDR35	FILTER	3	
L108	LH8TB100K	COIL	1	
L110	LH8TB100K	COIL	1	
L111	EXCELDR35	FILTER	1	
L112	LHLZ1R5M	FILTER	1	
L114	LHLZ1R5M	FILTER	1	
L115	EXCELSA35	FILTER	1	
L140	LH8TB100K	COIL	1	
L141	EXCELSA35	FILTER	1	
L142	EXCELSA24	FILTER	1	
L143	EXCELSA35	FILTER	1	
P001	M2023	AC INLET	1	⚠
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS101	B4B-EH-A	CONNECTOR(4P)	1	
PS102	TWGP15XA1	CONNECTOR(15P)	1	
PS103	127602110K	CONNECTOR(10P)	1	
PS104	B4B-EH-A	CONNECTOR(4P)	1	
PS105	TWGP19XA1	CONNECTOR(19P)	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2718	TRANSISTOR	1	⚠
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766A	TRANSISTOR	1	2SB0766A
Q109	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q113	2SK2232	TRANSISTOR	1	B1DEHG000006
Q115	2SB709A	TRANSISTOR	1	2SB0709A
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q305	2SB1218A	TRANSISTOR	1	
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q310	2SK3366	TRANSISTOR	1	
Q311	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q312	2SB710A	TRANSISTOR	1	2SB0710A
Q313	2SB1218A	TRANSISTOR	1	
Q314	2SD1328-R	TRANSISTOR	1	2SD13280R
Q315	2SB1218A	TRANSISTOR	1	
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	1	
R003	ERDS1FJ223	0.5W 22K	1	
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1002	0.1W 10K	1	
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F3480	0.1W 348	1	
R012	ER0S2CKF1001	0.25W 1K	1	EROS2CKF1001
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J822	0.1W 8.2K	1	
R025,26	ERJ12YJ4R7	0.5W 4.7	2	
R027,28	ERJ12YJ224	0.5W 220K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ102	1W 1K	1	
R102	CR10J100	0.1W 10	1	
R105	CR10J100	0.1W 10	1	
R112	CR10J152	0.1W 1.5K	1	
R113	CR10J471	0.1W 470	1	
R114	CR100R00	0	1	
R115-19	CR10JR16	0.1W 0.16	5	
R120	CR10J102	0.1W 1K	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4530	0.25W	1	
R123	CR10J122	0.1W 1.2K	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	
R128	CR10F2870	0.1W 287	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R135	ER0S2TKF1430	0.25W 14K	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ152	1/2W 1500	1	
R141,42	CR10J152	0.1W 1.5K	2	
R143,44	CR10J272	0.1W 27K	2	
R148-52	CR10JR16	0.1W 0.16	5	
R162,63	CR10J100	0.1W 10	2	
R167	CR10J822	0.1W 8.2K	1	
R168	CR10J153	0.1W 15K	1	
R169	CR10J121	0.1W 120	1	
R170	CR10J101	0.1W 100	1	
R171	CR10J822	0.1W 8.2K	1	
R172	ERJ6GEYG821	0.1W 820	1	
R173	CR10J102	0.1W 1K	1	
R178	CR10J272	0.1W 27K	1	
R179,80	CR10J822	0.1W 8.2K	2	
R181	ERDS2FJ222	1/4W 2.2K	1	
R182	CR10J222	0.1W 2.2K	1	
R183,84	ERJ6GEYG271	1/10W 270	2	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F6041	0.1W 6.04K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R346	ERDS2FJ101	1/4W 100	1	
R347,48	CR10J103	0.1W 10K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R349	CR10J472	0.1W 4.7K	1	
R350	CR10J102	0.1W 1K	1	
R351	CR10J472	0.1W 4.7K	1	
R352	CR10J683	0.1W 68K	1	
R353	CR10J472	0.1W 4.7K	1	
R354	CR10J752	0.1W 7.5K	1	
R355	CR10J103	0.1W 10K	1	
R356	CR10J102	0.1W 1K	1	
R357	CR10J472	0.1W 4.7K	1	
R358	CR10J103	0.1W 10K	1	
T001	ETB28BF1P6A	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
TH101	NC21F104J	THERMISTOR	1	
VR102,03	EVMEASA01B52	V.R.	2	
Z002	ERZVGAD471	DIODE	1	⚠
ZD001	RD120EB	DIODE	1	
ZD002	MAZ82700ML	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
ZD304	MA8051	DIODE	1	
■	03	REP3532G/REP3532F		
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1508,09	F2A0J470A012	6.3V 47U	2	
C1510	ECJ1VB1C104K	16V 0.1U	1	
C1511	F2A0J470A012	6.3V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A0J470A012	6.3V 47U	1	
C1518	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C1531,32	ECJ1VB1C104K	16V 0.1U	2	
C3001	ECJ1VB1H103K	50V 0.01U	1	
C3005	ECJ1VB1H103K	50V 0.01U	1	
C3006	ECEA0JKS101	6.3V 100U	1	
C3007-14	ECJ1VB1H103K	50V 0.01U	8	
C3016-19	ECJ1VB1H103K	50V 0.01U	4	
C3020	ECEA0JKS101	6.3V 100U	1	
C3021-24	ECJ1VB1H103K	50V 0.01U	4	
C3025	ECJ1VB1C104K	16V 0.1U	1	
C3026	ECJ1VB1H103K	50V 0.01U	1	
C3027	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3028	ECJ1VB1H103K	50V 0.01U	1	
C3029	ECEA0JKS470	6.3V 47U	1	
C3030,31	ECEA0JKN470	6.3V 47U	2	
C3032	ECJ1VC1H560J	50V 56P	1	
C3033	ECJ1VB1C104K	16V 0.1U	1	
C3034	ECEA1HSN010	50V 1U	1	
C3035-37	ECJ1VB1H103K	50V 0.01U	3	
C3038	ECEA1AKS221	10V 220U	1	
C3039	ECJ1VB1H103K	50V 0.01U	1	
C3040	ECEA0JKS101	6.3V 100U	1	
C3041	ECJ1VB1C104K	16V 0.1U	1	
C3042-44	ECEA0JKN470	6.3V 47U	3	
C3045	ECA0JM102	6.3V 1000U	1	
C3046	ECEA0JKS101	6.3V 100U	1	
C3047	ECA0JM102	6.3V 1000U	1	
C3048	ECEA0JKS101	6.3V 100U	1	
C3049,50	ECJ1VB1C104K	16V 0.1U	2	
C3051	ECJ1VC1H560J	50V 56P	1	
C3052	ECJ1VB1C104K	16V 0.1U	1	
C3053	ECEA0JKN470	6.3V 47U	1	
C3054	ECJ1VB1C104K	16V 0.1U	1	
C3056	ECJ1VC1H471J	50V 470P	1	
C3058	ECJ1VC1H471J	50V 470P	1	
C3059	ECJ1VB1C104K	16V 0.1U	1	
C3060,61	ECJ1VC1H470J	50V 47P	2	
C3064-67	ECJ1VB1H103K	50V 0.01U	4	
C3068	ECJ1VC1H150J	50V 15P	1	
C3069	ECJ1VC1H180J	50V 18P	1	
C4001,02	F2A1H4R7A236	50V 4.7U	2	
C4003,04	ECJ1VB1H103K	50V 0.01U	2	
C4005-07	F2A1H1R0A236	50V 1U	3	
C4008	F2A1C221A019	16V 220U	1	
C4010	F2A1H1R0A236	50V 1U	1	
C4011	F2A1H100A236	50V 10U	1	
C4012	ECJ2VB1E104K	25V 0.1U	1	
C4013	F2A1H1R0A236	50V 1U	1	
C4014	F2A1H100A236	50V 10U	1	
C4015	F2A1H1R0A236	50V 1U	1	
C4017	F2A1H100A236	50V 10U	1	
C4018	F2A1H4R7A236	50V 4.7U	1	
C4019	F2A1C100A019	16V 10U	1	
C4020	ECJ2VB1E104K	25V 0.1U	1	
C4021	F2A1C100A019	16V 10U	1	
C4022	ECJ1VB1C104K	16V 0.1U	1	
C4023	F2A1H1R0A236	50V 1U	1	
C4024	F2A1C471A236	16V 470U	1	
C4025	F2A1H1R0A236	50V 1U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4027	F2A1H1R0A236	50V 1U	1	
C4028	ECJ1VB1H103K	50V 0.01U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4031	F2A1H1R0A236	50V 1U	1	
C4033,34	F2A1C4700011	16V 47U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4053	ECJ1VB1C104K	16V 0.1U	1	
C4054	F2A0J470A179	6.3V 47U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECJ2VC1H680J	50V 68P	1	
C4059	ECJ1VF1C104Z	16V 0.1U	1	
C4060	ECJ2VC1H680J	50V 68P	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	ECA1AM221	10V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4069	ECJ1VF1C104Z	16V 0.1U	1	
C4070	ECA1AM221	10V 220U	1	
C4072	ECA1AM221	10V 220U	1	
C4074,75	ECJ1VF1C104Z	16V 0.1U	2	
C4076	F2A1C471A236	16V 470U	1	
C4077	ECJ1VF1C104Z	16V 0.1U	1	
C4082,83	ECJ2VC1H561J	50V 560P	2	
C4091	ECJ1VF1C104Z	16V 0.1U	1	
C4092	F2A1C221A019	16V 220U	1	
C7401	F2A1C471A236	16V 470U	1	
C7402	ECJ1VB1H103K	50V 0.01U	1	
C7403,04	ECEA0JKS470	6.3V 47U	2	
C7405,06	ECJ1VB1C104K	16V 0.1U	2	
C7407	ECJ1VB1H103K	50V 0.01U	1	
C7408	ECJ1VB1C104K	16V 0.1U	1	
C7409,10	ECJ1VB1H103K	50V 0.01U	2	
C7413	ECEA0JKS470	6.3V 47U	1	
C7414	ECEA1HKS010	50V 1U	1	
C7415-17	ECEA0JKS470	6.3V 47U	3	
C7418,19	ECJ1VC1H330J	50V 33P	2	
C7420	ECJ1VB1C104K	16V 0.1U	1	
C7421,22	ECJ1VB1H103K	50V 0.01U	2	
C7423	ERJ3GEY0R00V	1/16W 0	1	(EG)
C7424	ECEA0JKS470	6.3V 47U	1	
C7426	ECJ1VB1C104K	16V 0.1U	1	
C7427	ECJ1VB1H222K	50V 2200P	1	
C7428	ECJ2VB1H103K	50V 0.01U	1	
C7429	ECJ1VB1C104K	16V 0.1U	1	(EG)
C7429	ECJ1VB1H332K	50V 3300P	1	(EB)
C7430-33	ECEA0JKS470	6.3V 47U	4	
C7439	ECJ1VB1C104K	16V 0.1U	1	
C7440	ECEA0JKS470	6.3V 47U	1	
C7441	ECJ1VB1C104K	16V 0.1U	1	
C7501-08	ECJ1VC1H151J	50V 150P	8	
C7509	ECEA0JKS470	6.3V 47U	1	
C7512	ECJ1VF1A105Z	10V 1U	1	
C7513	ECJ1VB1C104K	16V 0.1U	1	
C7515	ECJ1VF1A105Z	10V 1U	1	
C7516	ECJ1VC1H101J	50V 100P	1	
C7517	ECEA1VKA220B	35V 22U	1	
C7518	ECJ1VF1H104Z	50V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7521	F2A1C221A019	16V 220U	1	
C7522	ECJ1VF1H104Z	50V 0.1U	1	
C7523	ECQB1H473JF3	50V 0.047U	1	
C7524	ECJ1VB1H103K	50V 0.01U	1	
C7525	F2A0J221A256	6.3V 220U	1	
C7526	F2A1V100A174	35V 10U	1	
C7527	ECQB1H223KF3	50V 0.022U	1	
C7528	F2A1H100A218	50V 10U	1	
C7529	F2A1V220A174	35V 22U	1	
C7532	ECJ1VF1C104Z	16V 0.1U	1	
C7533	ECJ1VC1H101J	50V 100P	1	
C7535	ECJ1VB1C104K	16V 0.1U	1	
C7536	VCEA0JBS101	6.3V 100U	1	F2A0J1010003
C7537	ECJ1VF1C104Z	16V 0.1U	1	
C7538	ECJ1VB1C104K	16V 0.1U	1	
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J
C7540	ECJ1VC1H151J	50V 150P	1	
C7541	ECJ1VC1H101J	50V 100P	1	
C7542	ECJ1VB1C104K	16V 0.1U	1	
C7543	ECEA0JKS470	6.3V 47U	1	
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	
C7546	ECJ1VB1C104K	16V 0.1U	1	
C7547	ECEA0JKS470	6.3V 47U	1	
C7548,49	ECJ1VC1H100C	50V 10P	2	
C7551,52	ECJ1VC1H221J	50V 220P	2	
C7553	ECJ1VC1H101J	50V 100P	1	
C7554	ECJ1VC1H220J	50V 22P	1	
C7555	ECJ1VC1H270J	50V 27P	1	
C7556	ECJ1VC1H150J	50V 15P	1	
C7557	ECJ1VC1H270J	50V 27P	1	
C7558	ECJ1VB1H103K	50V 0.01U	1	
C7559	ECJ1VC1H470J	50V 47P	1	
C7560	ECJ1VB1H103K	50V 0.01U	1	
C7561	ECJ1VC1H470J	50V 47P	1	
C7562	ECJ1VB1C104K	16V 0.1U	1	
C7563	ECJ1VC1H470J	50V 47P	1	
C7564	ECJ1VB1C104K	16V 0.1U	1	
C7565,66	ECJ1VC1H100C	50V 10P	2	
C7567	ECEA0JKS470	6.3V 47U	1	
C7568	ECJ1VB1H103K	50V 0.01U	1	
C7570	ECJ1VB1C104K	16V 0.1U	1	
C7571	ECJ1VB1H103K	50V 0.01U	1	
C7572	ECJ1VB1C104K	16V 0.1U	1	
C7573	ECEA0JKS470	6.3V 47U	1	
C7575-77	ECJ1VB1H103K	50V 0.01U	3	
C7578,79	ECJ1VC1H101J	50V 100P	2	
C7580	ECEA0JKS101	6.3V 100U	1	
C7581	ECJ1VF1C104Z	16V 0.1U	1	
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005
C7583	ECEA1AKS221	10V 220U	1	
C7584	ECJ1VF1C104Z	16V 0.1U	1	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7589,90	ECJ1VC1H100C	50V 10P	2	
C7593-95	ECJ1VC1H100C	50V 10P	3	
C7599	ECJ1VC1H101J	50V 100P	1	
C7600	ECJ1VF1C104Z	16V 0.1U	1	
C7601	ECEA0JKS470	6.3V 47U	1	
C7603	ECEA0JKS470	6.3V 47U	1	
C7604	ECJ1VB1H103K	50V 0.01U	1	
C7605	ECEA0JKS470	6.3V 47U	1	
C7606	ECJ1VF1C104Z	16V 0.1U	1	
C7607	ECJ1VF1H103Z	50V 0.01U	1	
C7608	ECJ1VF1C104Z	16V 0.1U	1	
C7609,10	ECJ1VB1H103K	50V 0.01U	2	
C7611,12	F1J0J4750004	6.3V 4.7U	2	
C9935,36	ECJ1VC1H221J	50V 220P	2	
D4001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA2C165001VT	DIODE	1	
D7402	MA4300N-M	DIODE	1	MAZ4300NM
D7403	MA2C165001VT	DIODE	1	
D7501	VSD0002	DIODE	1	B0HAGR000005
D7502	ERA22-02	DIODE	1	B0HAGM000001
D7503	MAZ4240NMF	DIODE	1	
D7504,05	MA2C18500E	DIODE	2	
D7506	MA4300N-M	DIODE	1	MAZ4300NM
D7507	B0ACCK000005	DIODE	1	
D7512	MA719	DIODE	1	MA2C719
D7513	B0JACE000001	DIODE	1	
DP7501	A2BD00000064	FL DISPLAY TUBE	1	
DU7402	ENG47327G1	TUNER PACK	1	(EG)
DU7402	ENG47328G1	TUNER PACK	1	(EB)
FL3003	ELB4B106	FILTER	1	
FL3004	ELB4A029	FILTER	1	
FL3005-07	ELB4C083	FILTER	3	
IC1501	C0DBZHG00012	IC	1	
IC1502	C0DBEFG00002	IC	1	
IC1503	C0DBZFD00015	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBCHD00002	IC	1	
IC1509	C0DBZFG00012	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3001	C1AB00001805	IC	1	
IC3002	C0JBAR000292	IC	1	
IC3003	C9ZB00000377	IC	1	
IC3004	C0JBAR000292	IC	1	
IC4001	C1AB00001779	IC	1	
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178
IC4006	K7AAAB000013	IC	1	
IC4007	TC7SET08F	IC	1	C0JBAA000284
IC4009	C0ABBB000216	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC4010	C0DBZJG00005	IC	1	
IC4011	C0DBZHE00013	IC	1	
IC4012	C0ABBB000118	IC	1	
IC4013	AN78L09M	IC	1	
IC7401	C0DBZJG00005	IC	1	
IC7402,03	C0DBCHD00002	IC	2	
IC7501	C0HBB0000029	IC	1	
IC7502	C2CBJG000344	IC	1	
IC7503	C0CBCDD00002	IC	1	
IC7504	C0EBJ0000153	IC	1	
IC7505	C0EBF0000182	IC	1	
IC7506	C3EBJC000038	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IC7508	C0EBE0000218	IC	1	
IP4001	D4FAR4000001	IC PROTECTOR	1	⚠
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠
JK3001	K1U822B00001	JACK,AV IN/OUT	1	
K9702	ERJ3GEY0R00V	1/16W 0	1	
L3006,07	G0C4R7JA0019	COIL 4.7UH	2	
L4002	ELESE220KA	COIL 22UH	1	
L7402	VLQ0599J270	COIL 27UH	1	G0C270JA0026 (EB)
L7403	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026
LB1501-05	J0JHC0000032	COIL	5	
LB3001-04	J0JGC0000020	COIL	4	
LB3012-16	J0JHC0000032	COIL	5	
LB4001	J0JGC0000020	COIL	1	
LB7401	J0JCC0000120	COIL	1	(EB)
LB7402-07	J0JHC0000032	COIL	6	
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	
LB7503	VLP0083	COIL	1	J0JKB0000011
LB7504	J0JGC0000020	COIL	1	
LB7505	ERJ3GEY0R00V	1/16W 0	1	
LB7506-10	J0JGC0000020	COIL	5	
LB7511	ERJ3GEY0R00V	1/16W 0	1	
LB7512	J0JGC0000020	COIL	1	
LB7519	ERJ3GEY0R00V	1/16W 0	1	
LB7520	J0JGC0000020	COIL	1	
LB7521	ERJ3GEY0R00V	1/16W 0	1	
LB7522	J0JGC0000020	COIL	1	
LB9704	ERJ3GEY0R00V	1/16W 0	1	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7504	K1KA03A00173	CONNECTOR(3P)	1	
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP3001	VJP3042G008W	CONNECTOR(8P)	1	K1KA08A00163
PP3002	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PP7401	VJP3042G020W	CONNECTOR(20P)	1	K1KA20A00203
PP7402	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136
PP7403	K1KA15A00064	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
Q3005	2SB1218A	TRANSISTOR	1	
Q3007-14	2SB1218A	TRANSISTOR	8	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SD1819AWL	TRANSISTOR	1	
Q7402	2SB1218A	TRANSISTOR	1	
Q7403-06	2SD0601A	TRANSISTOR	4	
Q7501,02	2SD0601A	TRANSISTOR	2	
Q7503	2SD1994B	TRANSISTOR	1	
Q7504	2SD0601A	TRANSISTOR	1	
Q7505	2SB709A	TRANSISTOR	1	2SB0709A
Q7506	2SD1819A0L	TRANSISTOR	1	
Q7507	2SB709A	TRANSISTOR	1	2SB0709A
Q7508	2SD1819A0L	TRANSISTOR	1	
Q7509	2SC2295	TRANSISTOR	1	
Q7510	2SB709A	TRANSISTOR	1	2SB0709A
Q7511,12	2SD0601A	TRANSISTOR	2	
Q7513	2SD1819A0L	TRANSISTOR	1	
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R
QR4001-07	UN5211	TRANSISTOR	7	UNR5211
QR4012	UN5113TW	TRANSISTOR	1	
QR7401-03	UN5213TX	TRANSISTOR	3	UNR521300L
QR7404	UNR511400L	TRANSISTOR	1	
QR7405	UN5213TX	TRANSISTOR	1	UNR521300L
QR7406	UN2115TW	TRANSISTOR	1	UNR211500L (EB)
QR7407	UN2215	TRANSISTOR	1	UNR2215 (EB)
QR7501	UN5213TX	TRANSISTOR	1	UNR521300L
QR7503	UN5212TX	TRANSISTOR	1	UNR521200L
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	ERJ3GEY0R00V	1/16W 0	1	
R3002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3003	ERJ3GEYJ102V	1/16W 1K	1	
R3004	ERJ3GEYJ132V	1/16W 1.3K	1	
R3005,06	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ152V	1/16W 1.5K	1	
R3020	ERJ3GEY0R00V	1/16W 0	1	
R3021	ERJ3GEYJ102V	1/16W 1K	1	
R3022-24	MCR03PZHJ561	1/16W 560	3	
R3025	ERJ3GEYJ152V	1/16W 1.5K	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEY0R00V	1/16W 0	1	
R3031,32	MCR03PZHJ561	1/16W 560	2	
R3034	ERJ3GEY0R00V	1/16W 0	1	
R3035	ERJ3GEYJ102V	1/16W 1K	1	
R3036	ERJ3GEYJ221V	1/16W 220	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3037	ERJ3GEYJ272V	1/16W 2.7K	1	
R3038-40	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3041,42	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3045	ERJ3GEYJ102V	1/16W 1K	1	
R3046,47	ERJ3GEYJ221V	1/16W 220	2	
R3048-50	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R3051	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3052	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3056,57	ERJ3GEYJ102V	1/16W 1K	2	
R3058-60	ERJ3GEYJ331V	1/16W 330U	3	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3RBD333V	1/16W 33K	1	
R3064	ERJ3RBD562V	1/16W 5.6K	1	
R3065	ERJ3RBD333V	1/16W 33K	1	
R3066	ERJ3RBD562V	1/16W 5.6K	1	
R3068	ERJ3RBD333V	1/16W 33K	1	
R3069	ERJ3RBD562V	1/16W 5.6K	1	
R3070	ERJ3RBD333V	1/16W 33K	1	
R3071	ERJ3RBD562V	1/16W 5.6K	1	
R3072	ERJ3RBD333V	1/16W 33K	1	
R3073	ERJ3RBD562V	1/16W 5.6K	1	
R3074	ERJ3RBD333V	1/16W 33K	1	
R3075	ERJ3RBD562V	1/16W 5.6K	1	
R3076	ERJ3RBD333V	1/16W 33K	1	
R3077	ERJ3RBD562V	1/16W 5.6K	1	
R3078-83	ERJ6GEYJ750V	1/10W 75	6	
R3084	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3085	ERJ3GEYJ102V	1/16W 1K	1	
R3086	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3089	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3090	ERJ3GEYJ102V	1/16W 1K	1	
R3093	ERJ3GEYJ102V	1/16W 1K	1	
R4001	ERJ6GEYJ102V	1/10W 1K	1	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ334V	1/16W 330K	1	
R4004,05	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R4006	ERJ3GEYJ334V	1/16W 330K	1	
R4007	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4008,09	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002
R4010,11	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R4012	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4013	ERJ6GEYJ102V	1/10W 1K	1	
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ6GEYJ102V	1/10W 1K	1	
R4016	ERJ3GEYJ225V	1/16W 2.2M	1	
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R4021,22	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002
R4023	ERJ6GEYJ102V	1/10W 1K	1	
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4027	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4039,40	ERJ3GEYD153V	1/16W 15K	2	D0HB153ZA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	D0HB752ZA002	1/16W 7.5K	2	
R4055	D0HB153ZA002	1/16W 15K	1	
R4057	D0HB153ZA002	1/16W 15K	1	
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4070	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076	ERJ3GEYJ821V	1/16W 820	1	
R4077	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4081	ERJ3GEYJ821V	1/16W 820	1	
R4087	ERJ3GEYJ102V	1/16W 1K	1	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090	ERJ3GEYJ221V	1/16W 220	1	
R4093	ERJ3GEYJ221V	1/16W 220	1	
R4099	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7401,02	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R7403	ERJ3GEYJ392V	1/16W 3.9K	1	
R7404	ERJ3GEYJ472V	1/16W 4.7K	1	
R7405	ERDS2FJ471	1/4W 470	1	
R7406	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7407	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7408	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7409	ERJ3GEYJ271V	1/16W 270	1	(EB)
R7410	ERJ3GEYJ100	1/16W 10	1	(EB)
R7411	ERG2SJ471E	2W 470	1	
R7412	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7413,14	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7415,16	ERJ3GEYJ471V	1/16W 470	2	
R7417	ERG2SJ471E	2W 470	1	
R7419,20	ERJ3GEYJ151V	1/16W 150	2	
R7421,22	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7423	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 (EB)
R7424	ERJ3GEYJ102V	1/16W 1K	1	
R7425	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7426	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7427	ERJ3GEYJ102V	1/16W 1K	1	
R7428	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7429	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7430	ERJ3GEYJ102V	1/16W 1K	1	
R7431	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7432	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7433	ERJ3GEYJ102V	1/16W 1K	1	
R7434	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7435	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7505	ERJ3GEYJ102V	1/16W 1K	1	
R7506,07	ERJ3GEYJ221V	1/16W 220	2	
R7508	ERJ3RBD273V	1/16W 27K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7512	ERDS2FJ331	1/4W 330	1	
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7514	ERDS2FJ3R9	1/4W 3.9	1	
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7516	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7517	ERJ3GEYJ102V	1/16W 1K	1	
R7518	ERJ3GEYJ104	1/16W 100K	1	
R7519	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	
R7521	ERJ3GEYJ102V	1/16W 1K	1	
R7522	ERJ3GEYJ104	1/16W 100K	1	
R7523	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7524	ERJ3GEYG152	1/16W 1.5K	1	
R7525	ERJ3GEYG562V	1/16W 5.6K	1	
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	
R7530	ERJ3GEYJ102V	1/16W 1K	1	
R7531	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7532	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R7541	ERJ3GEYJ104	1/16W 100K	1	
R7542	ERJ3GEYJ221V	1/16W 220	1	
R7543	ERJ3GEYJ104	1/16W 100K	1	
R7544	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7548	ERJ3GEY0R00V	1/16W 0	1	
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7550	ERJ3GEY0R00V	1/16W 0	1	
R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7552-54	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7555	ERJ3GEYJ221V	1/16W 220	1	
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	
R7557,58	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7559	ERJ3GEYJ511	1/16W 510	1	
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	
R7563-68	ERJ3GEYJ101	1/16W 100	6	D0GB101JA002
R7569-71	ERJ3GEYJ472V	1/16W 4.7K	3	
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7575	ERJ3GEYG433	1/16W 43K	1	
R7576	ERJ3GEYG393V	1/16W 39K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7577-81	ERJ3GEYJ101	1/16W 100	5	D0GB101JA002
R7582	ERJ3GEYJ102V	1/16W 1K	1	
R7590-92	ERJ3RBD822	1/16W 8.2K	3	
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7595,96	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7598	ERJ3GEYJ181V	1/16W 180	1	
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	
R7619	ERJ3GEYJ104	1/16W 100K	1	
R7620-23	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R7624	ERJ3GEYJ102V	1/16W 1K	1	
R7625	ERDS2TJ392	1/4W 3.9K	1	
R7626	ERJ6GEYJ750V	1/10W 75	1	
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
W501-19	ERJ3GEY0R00V	1/16W 0	19	
W520,21	ERJ6GEY0R00V	1/10W 0	2	
W522-27	ERJ3GEY0R00V	1/16W 0	6	
W528	ERJ6GEY0R00V	1/10W 0	1	
W529-31	ERJ3GEY0R00V	1/16W 0	3	
W532	ERJ6GEY0R00V	1/10W 0	1	
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	
X7502	H0A327200064	CRYSTAL OSCILLATOR	1	
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006
ZJ7401-04	VJR0978	EARTH ANGLE	4	K9ZZ00000424
■	04	VEP07A51A		
C7301	ECJ1VF1C104Z	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/16W 0	1	
C7303	ECEA0JKS101	6.3V 100U	1	
C7305	ECEA0JKS101	6.3V 100U	1	
C7306	ECJ1VF1H103Z	50V 0.01U	1	
C7307,08	ECJ1VC1H100C	50V 10P	2	
C7309-11	ECJ1VC1H101J	50V 100P	3	
C7312,13	ECEA1CKS100	16V 10U	2	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECEA1CKA470	16V 47U	1	
C7318	ECEA1CKS100	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/16W 0	1	
C7330	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
C7332	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECEA1HKS2R2	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
K7301-03	ERJ3GEY0R00V	1/16W 0	3	
K7305	ERJ3GEY0R00V	1/16W 0	1	
L7303	G0C1R0JA0019	COIL	1	
LB7301,02	J0JCC0000124	COIL	2	
LB7303	J0JCC0000080	COIL	1	
PK7301	VJR0777B007W	CONNECTOR(7P)	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(6P)	1	K1MM06B00002
R7301	ERJ3GEY0R00V	1/16W 0	1	
R7304	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7307	ERJ3GEY0R00V	1/16W 0	1	
R7309	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7311	ERJ3GEYJ221V	1/16W 220	1	
R7312,13	ERJ3GEYG221	1/16W 220	2	
R7314,15	ERJ3GEY0R00V	1/16W 0	2	
R7317	ERJ3GEY0R00V	1/16W 0	1	
R7319	ERJ3GEY0R00V	1/16W 0	1	
R7322	ERJ3GEY0R00V	1/16W 0	1	
R7324,25	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
W6,W7	ERJ3GEY0R00V	1/16W 0	2	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
■	05	VEP07A23Z/VEP07A23Y		
C0701	ECJ2XF1C105Z	16V 1U	1	
C0702	ECJ1VB1H102K	50V 1000P	1	
C0703	ECJ2YB1A105K	10V 1U	1	
C0704	ECJ2VB1E333K	25V 0.033U	1	
C0707	ECEA1HKS2R2	50V 2.2U	1	
C0708	ECEA1HKAR47B	50V 0.47U	1	
C0710	ECJ1VF1H103Z	50V 0.01U	1	
C0711	ECEA1CKS220	16V 22U	1	
C0712	ECJ1VF1C104Z	16V 0.1U	1	
C0713	ECEA0JKS331	6.3V 330U	1	
C0714	ECJ2XF1C105Z	16V 1U	1	
C0715	ECJ1VC1H030C	50V 3P	1	(EG)
C0715	ECJ1VC1H120J	50V 12P	1	(EB)
C0717	ECUM1H330GU	50V 33U	1	
C0719	ECJ1XF1E104Z	25V 0.1U	1	F1H1E104A030
C0721	ECJ1VC1H390J	50V 39P	1	
C0724	ECJ1VB1H221K	50V 220P	1	(EG)
C0724	ECUV1H331KBV	50V 330P	1	ECJ1VB1H331K (EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D0702	ERJ6GEY0R00V	1/10W 0	1	
IC0701	LA75503	IC	1	C1AA00000606
K0701	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J (EG)
K0703	ERJ3GEY0R00V	1/16W 0	1	
K0707	ERJ3GEY0R00V	1/16W 0	1	
K0709	ERJ3GEY0R00V	1/16W 0	1	
L0701	ELJNAR22JF	COIL 22UH	1	(EB)
L0701	VLQ0163JR33	COIL 33UH	1	G1CR33J00002 (EG)
L0703	ELJNA1R8JF	COIL 1.8UH	1	(EB)
L0703	ELJNA2R2JF	COIL 2.2UH	1	(EG)
PK0701	VJR0826E009W	CONNECTOR(9P)	1	K1MR09A00028
PP0701	VJP3589E004B	CONNECTOR(4P)	1	K1KA04B00135
Q0702	2SD0601ASL	TRANSISTOR	1	
R0701	ERJ6GEYJ104V	1/10W 100K	1	(EB)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0711	ERJ3GEYJ181V	1/16W 180	1	
R0713	ERJ3GEY0R00V	1/16W 0	1	
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R0717	ERJ3GEYJ471V	1/16W 470	1	
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	
R0725	ERJ6GEYJ101V	1/10W 100	1	
R0727,28	ERJ3GEY0R00V	1/16W 0	2	(EB)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0730	ERJ6GEYJ103V	1/10W 10K	1	(EG)
R0740	ERJ3GEYG102	1/16W 1K	1	
R0741	ERJ3GEYJ221V	1/16W 220	1	
R0742	ERJ8GEYJ151V	1/8W 150	1	
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	
T0701	EQV5EC082P	TRANSFORMER	1	(EG) ⚠
T0701	EQV5EC083P	TRANSFORMER	1	(EB) ⚠
VR0701	EVNCYAA03B14	V.R.	1	
W501	ERJ6GEY0R00V	1/10W 0	1	
W502,03	ERJ8GEY0R00V	1/8W 0	2	
W504	ERJ6GEY0R00V	1/10W 0	1	
W506	ERJ8GEY0R00V	1/8W 0	1	
W507-13	ERJ6GEY0R00V	1/10W 0	7	
W514	ERJ8GEY0R00V	1/8W 0	1	
W515	ERJ6GEY0R00V	1/10W 0	1	
W516,17	ERJ8GEY0R00V	1/8W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X0701	VLF1416	FILTER	1	J0B4045A0002 (EG)
X0701	VLF1417	FILTER	1	J0B4155A0003 (EB)
X0704	VLF1493	CRYSTAL OSCILLATOR	1	(EG)
X0704	VLF1495	CRYSTAL OSCILLATOR	1	(EB)
■	06	REP3584C/REP3584CD		
C3201	EEEHB0J470R	6.3V 47P	1	
C3202	ECJ1VB1H103K	50V 0.01U	1	
C3203-06	ECJ1VB1C104K	16V 0.1U	4	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	ECJ1VB1C104K	16V 0.1U	1	
C3209,10	ECJ1VB1H103K	50V 0.01U	2	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3212,13	EEEHB0J470R	6.3V 47P	2	
C3214	ECJ1VB1C104K	16V 0.1U	1	
C3215	ECJ1VB1H103K	50V 0.01U	1	
C3216	EEEHB0J470R	6.3V 47P	1	
C3217,18	ECST1AY106R	10V 10U	2	
C3226	ECJ1VB1C104K	16V 0.1U	1	
C3227	EEEHB0J101P	6.3V 100P	1	
C3228	ECJ1VB1H103K	50V 0.01U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C3234-38	ECJ1VB1H103K	50V 0.01U	5	
C3239-41	ECJ1VB0J105K	6.3V 1U	3	
C3242	ECJ1VB1H103K	50V 0.01U	1	
C3243,44	ECJ1VB1C104K	16V 0.1U	2	
C3245	ECJ1VB1H103K	50V 0.01U	1	
C3246-55	ECJ1VB1C104K	16V 0.1U	10	
C3256-58	ECST1AY106R	10V 10U	3	
C3401-03	ECST1AY106R	10V 10U	3	
C3502	ECJ1VB1H103K	50V 0.01U	1	
C3601	ECJ1VB1H103K	50V 0.01U	1	
C3602,03	ECJ1VF1C104Z	16V 0.1U	2	
C3604-06	ECST1AY106R	10V 10U	3	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEEHB0J220R	6.3V 22P	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEEHB0J101P	6.3V 100P	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEEHB1E4R7R	25V 4.7P	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEEHB0J470R	6.3V 47P	1	
C9003-08	EEEHB0J470R	6.3V 47P	6	
C9009,10	ECJ1VC1H470J	50V 47P	2	
C9011	EEEHB0J470R	6.3V 47P	1	
C9012	ECJ1VC1H470J	50V 47P	1	
C9013	EEEHB0J470R	6.3V 47P	1	
C9015	ECJ1VF1C104Z	16V 0.1U	1	

[redacted]	[redacted]	[redacted]	[redacted]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9016	EEEHB0J470R	6.3V 47P	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9018	ECJ1VC1H470J	50V 47P	1	
C9019	F1J0J106A014	6.3V 10U	1	
C9020	EEEHB0J101P	6.3V 100P	1	
C9021	ECJ1VF1C104Z	16V 0.1U	1	
C9022	ECJ1VB1H103K	50V 0.01U	1	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEEHB0J470R	6.3V 47P	1	
C37013	ECJ1VB1C104K	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEEHB0J101P	6.3V 100P	1	
C37025	ECJ1VB1C104K	16V 0.1U	1	
C37031	ECJ1VC1H180J	50V 18P	1	
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VB1C104K	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50001	ECJ1VF1C104Z	16V 0.1U	1	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEEHB0J220R	6.3V 22P	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEEHB0J220R	6.3V 22P	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEEHB0J101P	6.3V 100P	1	
C50025	ECST1AY106R	10V 10U	1	
C50026	EEEHB0J470R	6.3V 47P	1	
C50027	EEEHB1C100R	16V 10P	1	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
C50031-33	ECST1AY106R	10V 10U	3	
D3203,04	MA2ZV0100L	DIODE	2	
D3205,06	MA3S132E0L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201,02	F1H0J1050018	FILTER	2	
FL3205	F1H0J1050018	FILTER	1	
FL3209-22	F1H0J1050018	FILTER	14	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-11	F1H0J1050018	FILTER	3	
FL3421	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501-14	F1H0J1050018	FILTER	14	
FL3601-10	F1H0J1050018	FILTER	10	
FL3614	F1H0J1050018	FILTER	1	
FL4401,02	F1H0J1050018	FILTER	2	
FL6001-13	F1H0J1050018	FILTER	13	
FL6701-03	F1H0J1050018	FILTER	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL9003-07	F1H0J1050018	FILTER	5	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL37001-09	F1H0J1050018	FILTER	9	
FL37012	F1H0J1050018	FILTER	1	
FL37014,15	F1H0J1050018	FILTER	2	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
FP3501,02	K1MN40A00021	CONNECTOR(40P)	2	
IC3201	C3ABMG000103	IC	1	
IC3202	AN13310A-VB	IC	1	
IC3203	MN673747	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3206	C0JBAR000332	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572R	IC	1	MN85572
IC3501,02	C3ABQG000043	IC	2	
IC3503	MN88301	IC	1	
IC3603	C0JBAZ001776	IC	1	
IC3604	TC7SH04FUTL	IC	1	C0JBAB000175
IC3607	C3ABPJ000018	IC	1	
IC3608	C0ZBZ0000710	IC	1	
IC3609	C0JBAF000162	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC4404	C0JBAA000257	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002,03	C3ABQG000043	IC	2	
IC6004	MNZE0500YDR	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6704	REP3584C	DIGITAL P.C.B.	1	(EG)
IC6704	REP3584CD	DIGITAL P.C.B.	1	(EB)
IC9001	C0DBZFE00003	IC	1	
IC9002	C0DBCGD00001	IC	1	
IC9003	C0DBZFE00003	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C0JBAZ001776	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3201-07	J0JHC0000032	COIL	7	
LB3401,02	J0JHC0000032	COIL	2	
LB3501	J0JHC0000032	COIL	1	
LB3502,03	J0JHC0000045	COIL	2	
LB4401-03	J0JGC0000020	COIL	3	
LB9001	J0JHC0000032	COIL	1	
LB9002,03	J0JHC0000045	COIL	2	
LB9004,05	J0JHC0000032	COIL	2	
LB9006	J0JHC0000045	COIL	1	
LB9007-09	J0JHC0000032	COIL	3	
LB9010,11	ERJ3GEY0R00V	1/16W 0	2	
LB9012	J0JHC0000045	COIL	1	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
LB37001	J0JHC0000032	COIL	1	
LB37002	VLP0335	COIL	1	J0JBC0000013
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3503	K1KA70A00037	CONNECTOR(70P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
PS9001-03	K1KB30A00135	CONNECTOR(30P)	3	
PS37001	K1KB08B00055	CONNECTOR(8P)	1	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-05	2SD0601A	TRANSISTOR	5	
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3501	UN5213TX	TRANSISTOR	1	UNR521300L
QR3503	UN5213TX	TRANSISTOR	1	UNR521300L
R3202	ERJ3GEY0R00V	1/16W 0	1	
R3210	ERJ3GEY0R00V	1/16W 0	1	
R3214,15	ERJ3GEY0R00V	1/16W 0	2	
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3227,28	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3229,30	ERJ3GEY0R00V	1/16W 0	2	
R3231,32	ERJ3GEYJ220V	1/16W 22	2	
R3234	ERJ3GEYJ472V	1/16W 4.7K	1	
R3235,36	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3245-47	ERJ3GEYJ220V	1/16W 22	3	
R3250,51	ERJ3GEYJ220V	1/16W 22	2	
R3252	ERJ3GEYJ102V	1/16W 1K	1	
R3253	ERJ3GEY0R00V	1/16W 0	1	
R3254	ERJ3GEYJ220V	1/16W 22	1	
R3261	ERJ3GEY0R00V	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3402	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3404	ERJ3GEYJ220V	1/16W 22	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3423	ERJ3GEYJ220V	1/16W 22	1	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R3503	ERJ3GEYJ220V	1/16W 22	1	
R3504-06	ERJ3GEYJ330V	1/16W 33	3	D0GB330JA002
R3507,08	ERJ3GEYJ220V	1/16W 22	2	
R3509-12	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3513	ERJ3GEY0R00V	1/16W 0	1	
R3514	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3515	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3516,17	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R3519-25	ERJ3GEY0R00V	1/16W 0	7	
R3526-29	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3531	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3533	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3534	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3535	ERJ3GEYJ102V	1/16W 1K	1	
R3536	ERJ3GEY0R00V	1/16W 0	1	
R3538	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3539,40	ERJ3GEYJ820V	1/16W 82	2	
R3541	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3542,43	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3544	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3545,46	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3547	ERJ3GEYJ102V	1/16W 1K	1	
R3548	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3601	ERJ3GEY0R00V	1/16W 0	1	
R3603-07	ERJ3GEYJ473V	1/16W 47K	5	D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3608	ERJ3GEY0R00V	1/16W 0	1	
R3609	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3610	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3611	ERJ3GEYJ221V	1/16W 220	1	
R3612	ERJ3GEY0R00V	1/16W 0	1	
R3613-15	ERJ3GEYJ220V	1/16W 22	3	
R3616	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3617	ERJ3GEYJ221V	1/16W 220	1	
R3618	ERJ3GEYJ220V	1/16W 22	1	
R3619,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3622,23	ERJ3GEY0R00V	1/16W 0	2	
R3624-27	ERJ3GEYJ220V	1/16W 22	4	
R3628,29	ERJ3GEYJ472V	1/16W 4.7K	2	
R3630	ERJ3GEYJ102V	1/16W 1K	1	
R3631	ERJ3GEY0R00V	1/16W 0	1	
R3633	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3634	ERJ3GEY0R00V	1/16W 0	1	
R3636	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3637	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3638-48	ERJ3GEY0R00V	1/16W 0	11	
R3649	ERJ3GEYJ220V	1/16W 22	1	
R3650	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3652,53	ERJ3GEY0R00V	1/16W 0	2	
R3654,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3656-58	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3661	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3662	ERJ3GEY0R00V	1/16W 0	1	
R3664	ERJ3GEY0R00V	1/16W 0	1	
R3691	ERJ3GEY0R00V	1/16W 0	1	
R3692	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3693-95	ERJ3GEY0R00V	1/16W 0	3	
R3697	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412	ERJ3GEY0R00V	1/16W 0	1	
R4415,16	ERJ3GEY0R00V	1/16W 0	2	
R4418,19	ERJ3GEYJ470V	1/16W 47	2	
R4420,21	ERJ3GEY0R00V	1/16W 0	2	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6006	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6012	ERJ3GEYJ221V	1/16W 220	1	
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6024	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6029	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-14	ERJ3GEYJ470V	1/16W 47	6	
R6715	ERJ3GEYJ220V	1/16W 22	1	
R6716-18	ERJ3GEYJ470V	1/16W 47	3	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723-26	ERJ3GEYJ470V	1/16W 47	4	
R6727	ERJ3GEY0R00V	1/16W 0	1	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6729	ERJ3GEYJ470V	1/16W 47	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6731,32	ERJ3GEYJ470V	1/16W 47	2	
R6733-38	ERJ3GEY0R00V	1/16W 0	6	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6740,41	ERJ3GEY0R00V	1/16W 0	2	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6743	ERJ3GEY0R00V	1/16W 0	1	
R6744,45	ERJ3GEYJ470V	1/16W 47	2	
R6746,47	ERJ3GEY0R00V	1/16W 0	2	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6749	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6750	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6753	ERJ3GEYJ472V	1/16W 4.7K	1	
R6755	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6756	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R9001	ERJ3GEY0R00V	1/16W 0	1	
R9008	ERJ3GEY0R00V	1/16W 0	1	
R9014	ERJ3GEY0R00V	1/16W 0	1	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9016	ERJ3GEY0R00V	1/16W 0	1	
R36001	ERJ3GEYJ221V	1/16W 220	1	
R36002	ERJ3GEYJ220V	1/16W 22	1	
R37001-04	ERJ3RED560V	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3EKF1800	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00V	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00V	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37032-38	ERJ3GEY0R00V	1/16W 0	7	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00V	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37057,58	ERJ3GEY0R00V	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061	ERJ3GEY0R00V	1/16W 0	1	
R37062	ERJ3GEYJ102V	1/16W 1K	1	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064-70	ERJ3GEY0R00V	1/16W 0	7	
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD273V	1/16W 27K	1	
R50014	ERJ3GEYJ470V	1/16W 47	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50019	ERJ3GEYJ470V	1/16W 47	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEYJ470V	1/16W 47	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED750V	1/16W 75	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED750V	1/16W 75	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50049	ERJ3RBD223	1/16W 22K	1	
R50050	ERJ3GEYJ220V	1/16W 22	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
R50080	ERJ3GEYJ470V	1/16W 47	1	
R50082	ERJ3GEY0R00V	1/16W 0	1	
R50083	ERJ3RED220	1/16W 22	1	
R50084	ERJ3GEY0R00V	1/16W 0	1	
R50086	ERJ3GEY0R00V	1/16W 0	1	
RA3401-12	D1H82204A024	RESISTOR-RESISTOR	12	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RX3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RX3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RX3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RX3214-16	D1H82204A024	RESISTOR-RESISTOR	3	
RX3501-07	D1H82204A024	RESISTOR-RESISTOR	7	
RX3508-23	D1H83304A024	RESISTOR-RESISTOR	16	
RX3524	D1H84734A024	RESISTOR-RESISTOR	1	
RX3525	D1H81034A024	RESISTOR-RESISTOR	1	
RX3526-29	D1H83304A024	RESISTOR-RESISTOR	4	
RX3530-33	D1H82204A024	RESISTOR-RESISTOR	4	
RX3534-38	D1H81034A024	RESISTOR-RESISTOR	5	
RX3601,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX3603	D1H83304A024	RESISTOR-RESISTOR	1	
RX3604	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3605	D1H83304A024	RESISTOR-RESISTOR	1	
RX3606	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3607,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX3615-22	D1H84734A024	RESISTOR-RESISTOR	8	
RX3631,32	D1H8R0040009	RESISTOR-RESISTOR	2	
RX3650,51	D1H8R0040009	RESISTOR-RESISTOR	2	
RX3653-64	D1H82204A024	RESISTOR-RESISTOR	12	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H82204A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022-24	D1H84704A024	RESISTOR-RESISTOR	3	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6028-33	D1H84704A024	RESISTOR-RESISTOR	6	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
RX37001-05	D1H81034A024	RESISTOR-RESISTOR	5	
RX37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RX37015-18	D1H81034A024	RESISTOR-RESISTOR	4	
RX50001,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RX50017	D1H81034A024	RESISTOR-RESISTOR	1	
RX50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RX50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
T37001	J0JBD0000043	TRANSFORMER	1	⚠
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
■	07	REP3540EA		
C6801	ECJ1VB1C104K	16V 0.1U	1	
C6803-06	ECJ1VB1C104K	16V 0.1U	4	
C6808-10	ECJ1VB1C104K	16V 0.1U	3	
C6811,12	ECJ1VB1H103K	50V 0.01U	2	
C6813	EEEHB1C470P	16V 47P	1	
C6814	EEEHB0J101P	6.3V 100P	1	
C6815	ECJ1VB1H103K	50V 0.01U	1	
C6816	ECJ1VB1C104K	16V 0.1U	1	
FL6801-08	F1H0J1050018	FILTER	8	
IC6801	TC7W32FUTL	IC	1	C0JBAE000098
IC6802	C0JBAZ001166	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAZ001988	IC	1	
IC6805	C0JBAZ001859	IC	1	
IC6806	C0JBAZ000608	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC6807	C0DBCHG00003	IC	1	
IC6809	C0EBJ0000153	IC	1	
IC6810	C0JBAZ001859	IC	1	
K6801	ERJ3GEY0R00V	1/16W 0	1	
LB6801	J0JHC0000032	COIL	1	
LB6802,03	J0JHC0000045	COIL	2	
P6801	K1KB70A00036	CONNECTOR(70P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1NA09E00027	CONNECTOR(9P)	1	
Q6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6801	UN5211	TRANSISTOR	1	UNR5211
R6801,02	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6803	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6804,05	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R6806	ERJ3GEYJ104	1/16W 100K	1	
R6807	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6808	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R6809	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6810,11	ERJ3GEYJ220V	1/16W 22	2	
R6812,13	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R6814	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6815-18	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R6819	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6820-27	ERJ3GEYJ223V	1/16W 22K	8	D0GB223JA002
R6828	ERJ3GEYJ123V	1/16W 12K	1	
RX6801-12	D1H83304A024	RESISTOR-RESISTOR	12	
RX6813	D1H82204A024	RESISTOR-RESISTOR	1	
RX6814-17	D1H84734A024	RESISTOR-RESISTOR	4	
RX6818	D1H81234A024	RESISTOR-RESISTOR	1	
■	08	REP3604A		
P9801	K1KB40A00124	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	09	REP3542A		
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	10	REP3540AB		
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	11	REP3598BB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
C7005,06	ECJ1VC1H221J	50V 220P	2	
C7009,10	ECJ1VC1H470J	50V 47P	2	
D7001	LNJ201LPQJA	LED	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00006	JACK,AV 3	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
QR7001	UN2214	TRANSISTOR	1	UNR2214
R7001	ERDS2FJ391	1/4W 390	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH(POWER)	1	
W501,02	ERJ3GEY0R00V	1/16W 0	2	
■	12	REP3598AA		
D7801	B3ABA0000396	DIODE	1	
D7802	LNJ201LPQJA	LED	1	
D7804	LNJ201LPQJA	LED	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801-05	UN2214	TRANSISTOR	5	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7812	ERJ3RBD113V	1/16W 11K	1	
R7813	ERJ3RBD333V	1/16W 33K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7815	ERJ3RBD152V	1/16W 1.5K	1	
R7821-25	ERJ3GEYJ221V	1/16W 220	5	

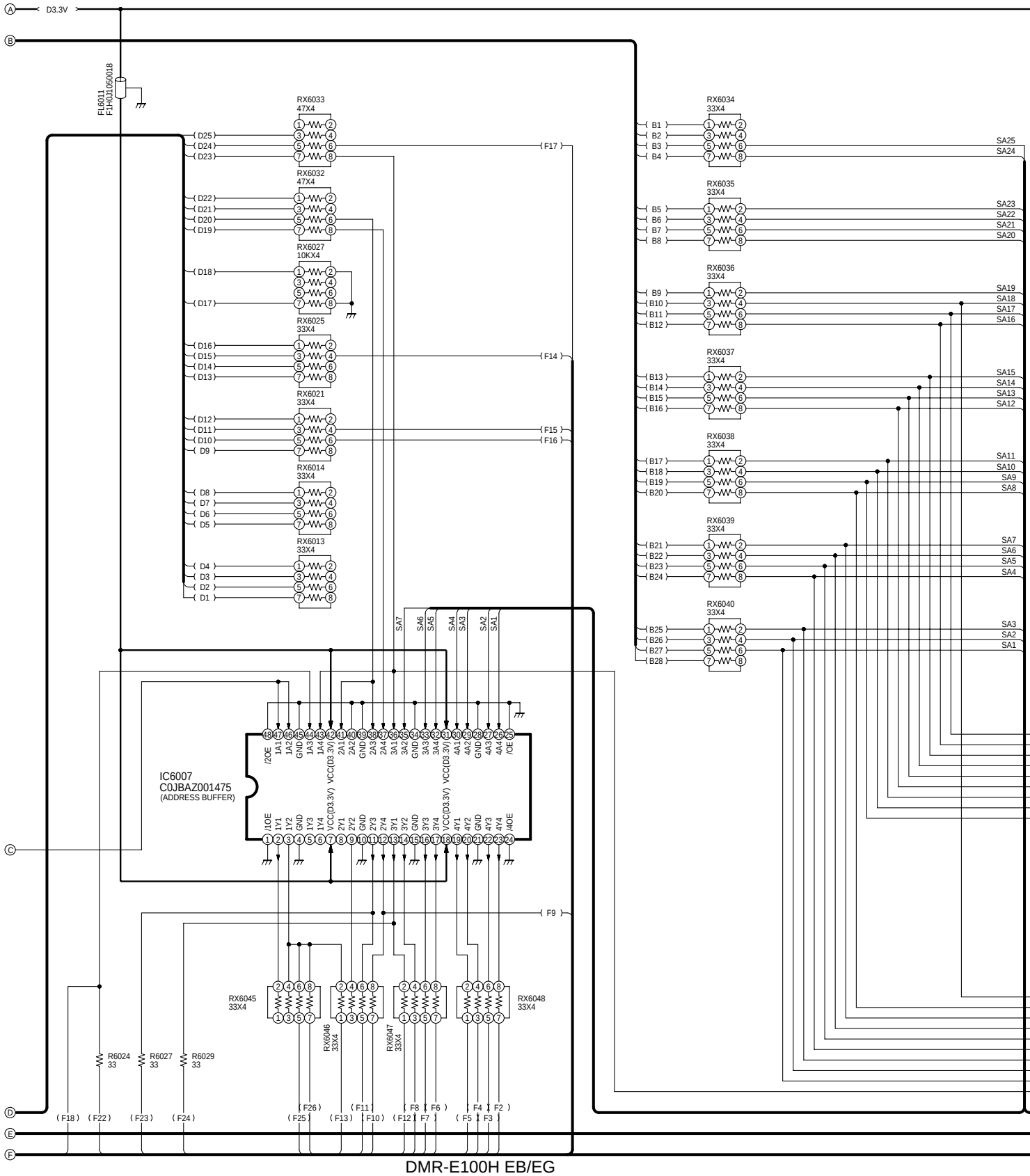
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S7802	EVQ11G07K	SWITCH(REC)	1	
S7803	EVQ11G07K	SWITCH(CH-DOWN)	1	
S7804	EVQ11G07K	SWITCH(SKIP-R)	1	
S7805	EVQ11G07K	SWITCH(STOP)	1	
S7808	EVQ11G07K	SWITCH(CH-UP)	1	
S7809	EVQ11G07K	SWITCH(MODE)	1	
S7810	EVQ11G07K	SWITCH(ERASE)	1	
S7811	EVQ11G07K	SWITCH(TIME-WARP)	1	
S7812	EVQ11G07K	SWITCH(PLAY)	1	
S7813	EVQ11G07K	SWITCH(TIMER-REC)	1	
S7814	EVQ11G07K	SWITCH(EXT-LINK)	1	
S7815	EVQ11G07K	SWITCH(SKIP-F)	1	
S7816	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S7817	K0H1BA000372	SWITCH(DVD)	1	
S7818	K0H1BA000372	SWITCH(HDD)	1	
■	13	REP3533A		
C3901	ECJ1VB1H103K	50V 0.01U	1	
C3902	ECEA0JKS470	6.3V 47U	1	
C3903	ECEA1AKS221	10V 220U	1	
C3904	ECEA1CKS220	16V 22U	1	
C3905	ECEA1AKS221	10V 220U	1	
C3906	ECEA1CKS220	16V 22U	1	
C3907	ECEA1AKS221	10V 220U	1	
C3908	ECEA1CKS220	16V 22U	1	
C3909	ECEA0JKS470	6.3V 47U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3914-17	ECA1HAK010XI	50V 1U	4	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	ECJ1VB1C104K	16V 0.1U	1	
C3921	ECA0JAK331X	6.3V 330U	1	
C3922	ECJ1VB1H103K	50V 0.01U	1	
C3923	ECJ1VB1C104K	16V 0.1U	1	
C3924	ECA0JAK331X	6.3V 330U	1	
C3925	ECJ1VB1H103K	50V 0.01U	1	
C3928,29	ECA1HAK010XI	50V 1U	2	
C3930	ECJ1VB1H103K	50V 0.01U	1	
C3931,32	ECA1HAK010XI	50V 1U	2	
C3933	ECA1CAK101XB	16V 100U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK101XB	16V 100U	1	
C3938	ECJ1VF1C104Z	16V 0.1U	1	
C3939	ECJ1VB1H103K	50V 0.01U	1	
C3951,52	ECJ1VC1H470J	50V 47P	2	
C3953,54	ECJ1VC1H471J	50V 470P	2	
C3955,56	ECJ1VC1H101J	50V 100P	2	
C3957,58	ECJ1VC1H471J	50V 470P	2	
C3959,60	ECJ1VC1H470J	50V 47P	2	
C3961,62	ECJ1VC1H101J	50V 100P	2	
D3901	MA2C165001VT	DIODE	1	
D3903	MA3Z142D0RG	DIODE	1	

[redacted]	[redacted]	[redacted]	[redacted]	

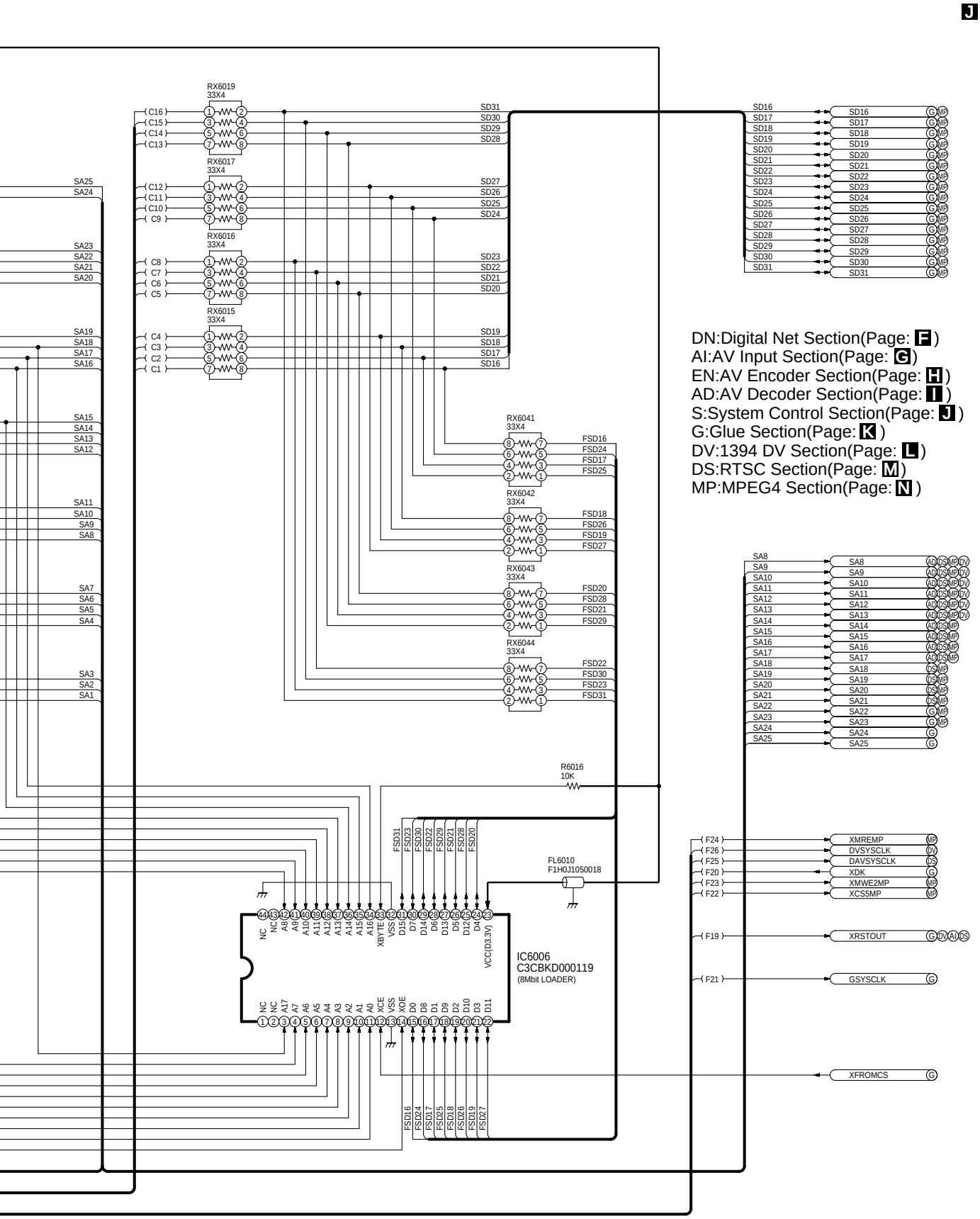
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3905,06	MAZ4051NMF	DIODE	2	
IC3901	C1AB00001776	IC	1	
IC3902	BA7660FS	IC	1	C9ZB00000282
JK3904	K1FB121A0003	JACK,AV 2	1	
JK3905	K1FB121A0003	JACK,AV 1	1	
LB3901	J0JGC0000020	COIL	1	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922,23	J0JGC0000020	COIL	2	
LB3925	J0JGC0000020	COIL	1	
PS3901	VJS3042F020W	CONNECTOR(20P)	1	K1KB20B00027
PS3902	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
PS3903	K1KB15B00013	CONNECTOR(15P)	1	
Q3901	2SD1819A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB710A	TRANSISTOR	1	2SB0710A
Q3908	2SB1218A	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
QR3908	UN5212TX	TRANSISTOR	1	UNR521200L
QR3909	UN5211	TRANSISTOR	1	UNR5211
QR3913	UN5212TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215	TRANSISTOR	2	UNR2215
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3902	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R3903	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3904	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3905	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3906	ERJ3GEYJ102V	1/16W 1K	1	
R3907	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R3913	ERJ3EKF1800	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ6ENF75R0	1/10W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ6ENF75R0	1/10W 75	4	
R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-33	ERJ3RED750V	1/16W 75	3	
R3934,35	ERJ6ENF75R0	1/10W 75	2	
R3962	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3967	ERJ3GEYJ152V	1/16W 1.5K	1	
R3968	ERJ3GEYJ680	1/16W 68	1	ERJ3GEYJ680V
R3969	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3972,73	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3975,76	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104	1/16W 100K	2	
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3988,89	ERJ3GEYJ102V	1/16W 1K	2	
R3990,91	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3992,93	ERJ3GEYJ102V	1/16W 1K	2	
R3994	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
ZA3901-04	VMC1450	EARTH PLATE	4	
■	14	REP3594A		
PS3601	VJS3042F008W	CONNECTOR(8P)	1	K1KB08B00028
PS3602	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
■	15	JIG TOOLS		
	RFKZ0181	EXTENTION CABLE(70PIN)	1	SD CARD-DIGITAL
	RFKZ0164	EXTENTION CABLE(30PINX3)	1	MAIN-DIGITAL
	RFKZ0168	EXTENTION CABLE(3PIN)	1	FAN MOTOR
	RFKZ0125	EXTENTION CABLE(40PIN)	1	RAM-DIGITAL
	RFKZ0165	EXTENTION CABLE(20PIN)	1	MAIN-FRONT(L)
	RFKZ0170	EXTENTION CABLE(19PIN)	1	POWER SUPPLY-MAIN
	RFKZ0171	EXTENTION CABLE(15PIN)	1	POWER SUPPLY-MAIN
	RFKZ0166	EXTENTION CABLE(10PIN)	1	POWER SUPPLY-FRONT(R)
	RFKZ0169	EXTENTION CABLE(4PIN)	1	POWER SUPPLY-HDD

18. Schematic Diagram for printing with A4 size



DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

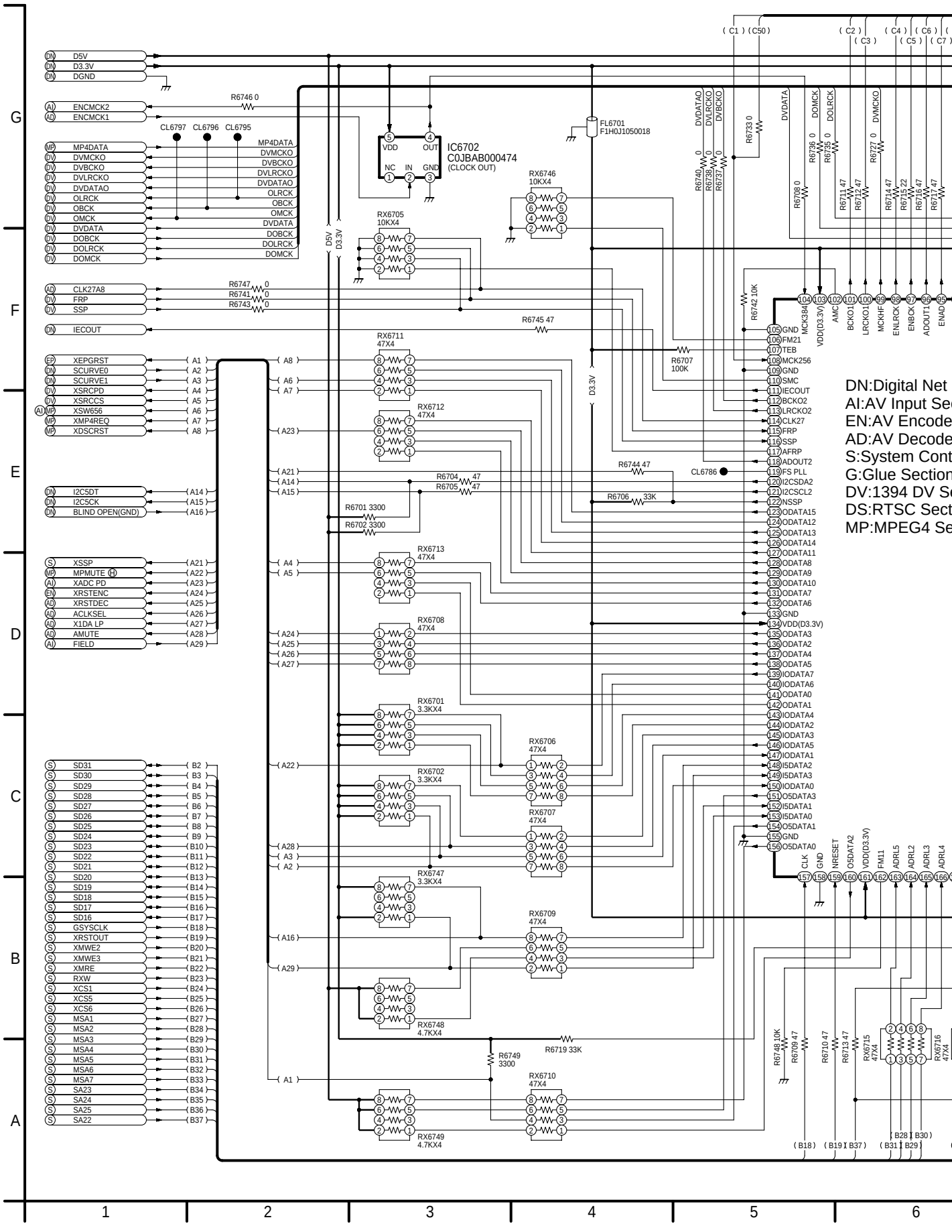


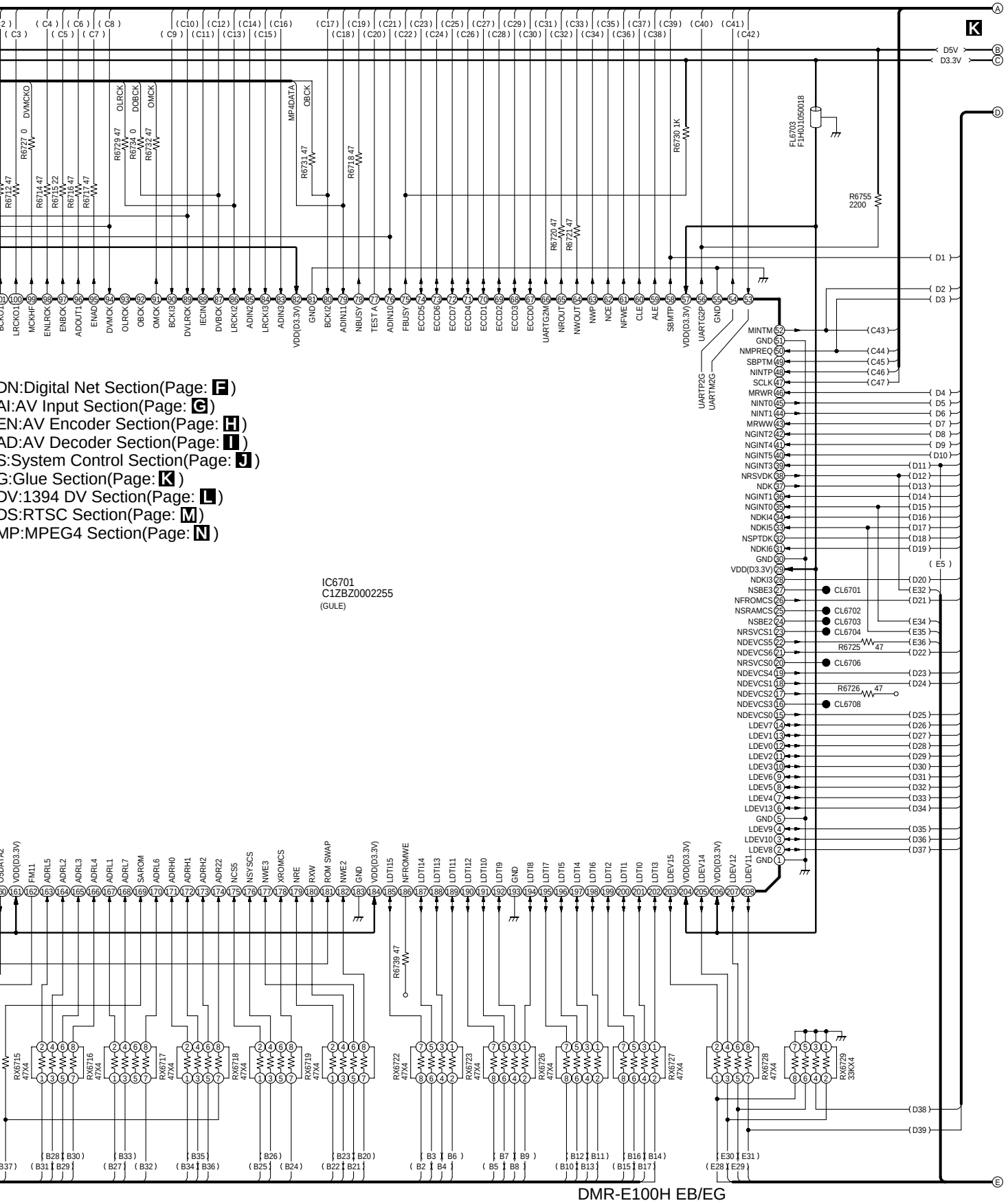
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

28	29	30	31	32	33

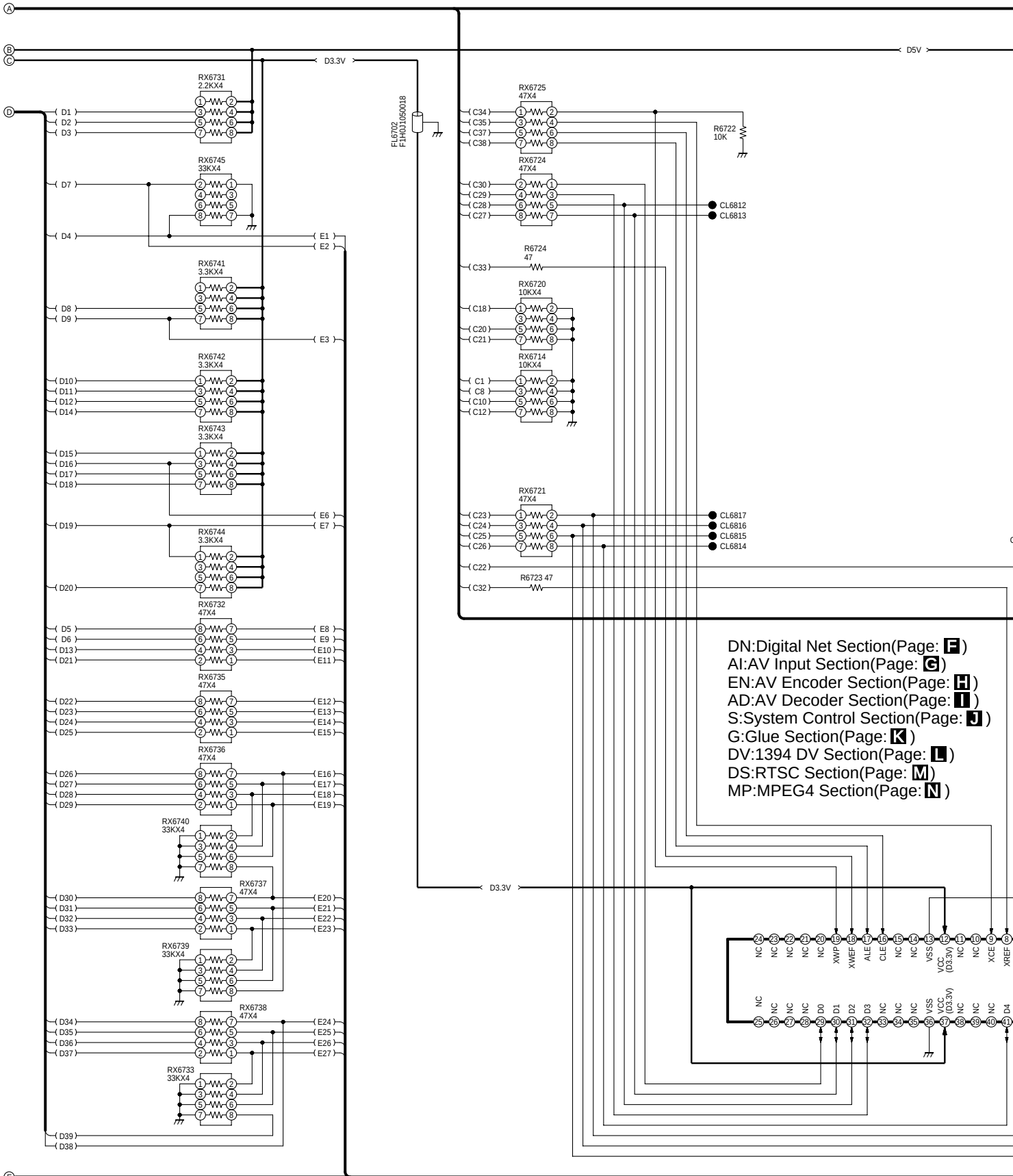
14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)



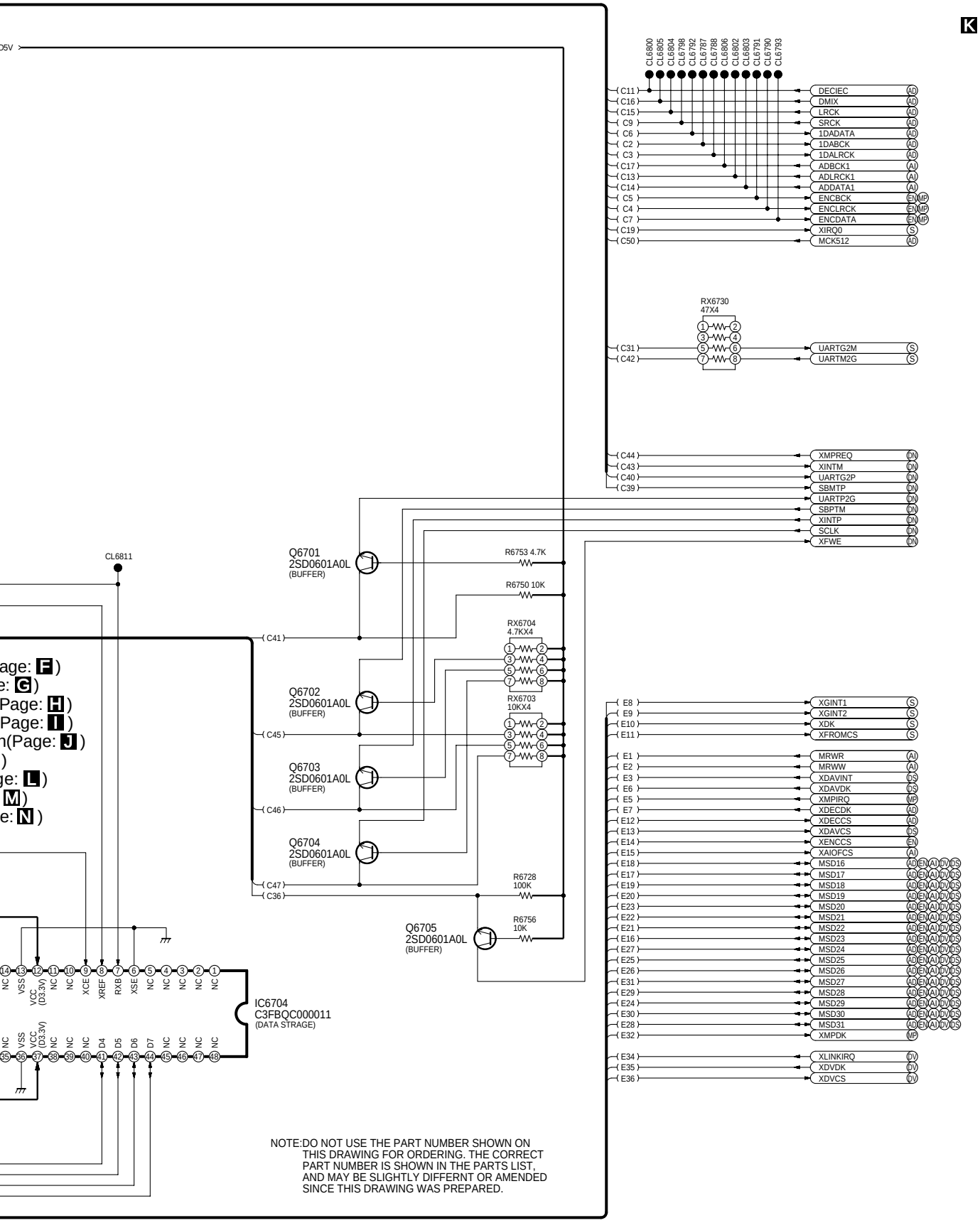


DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

6 | 7 | 8 | 9 | 10 | 11

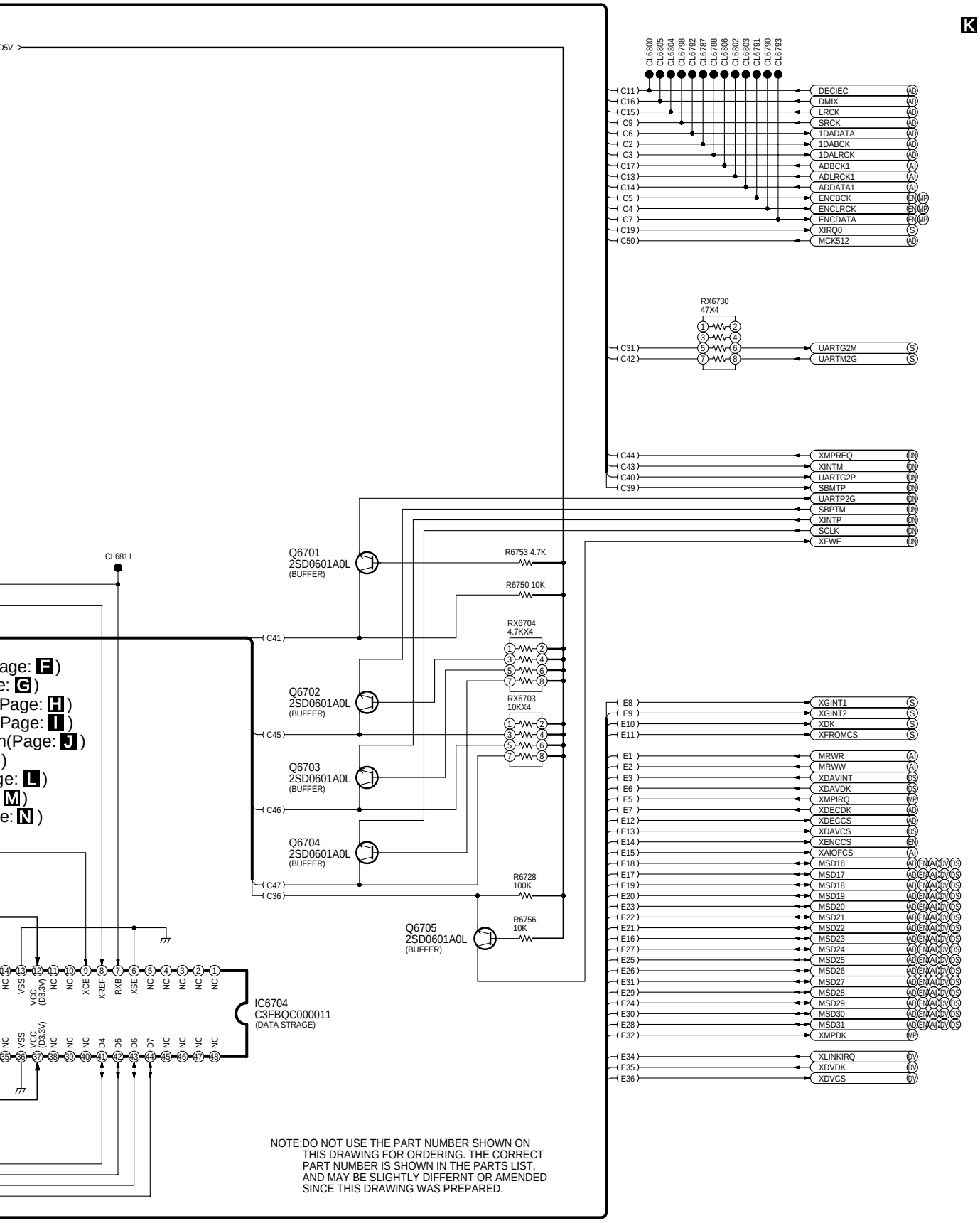


DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)



DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

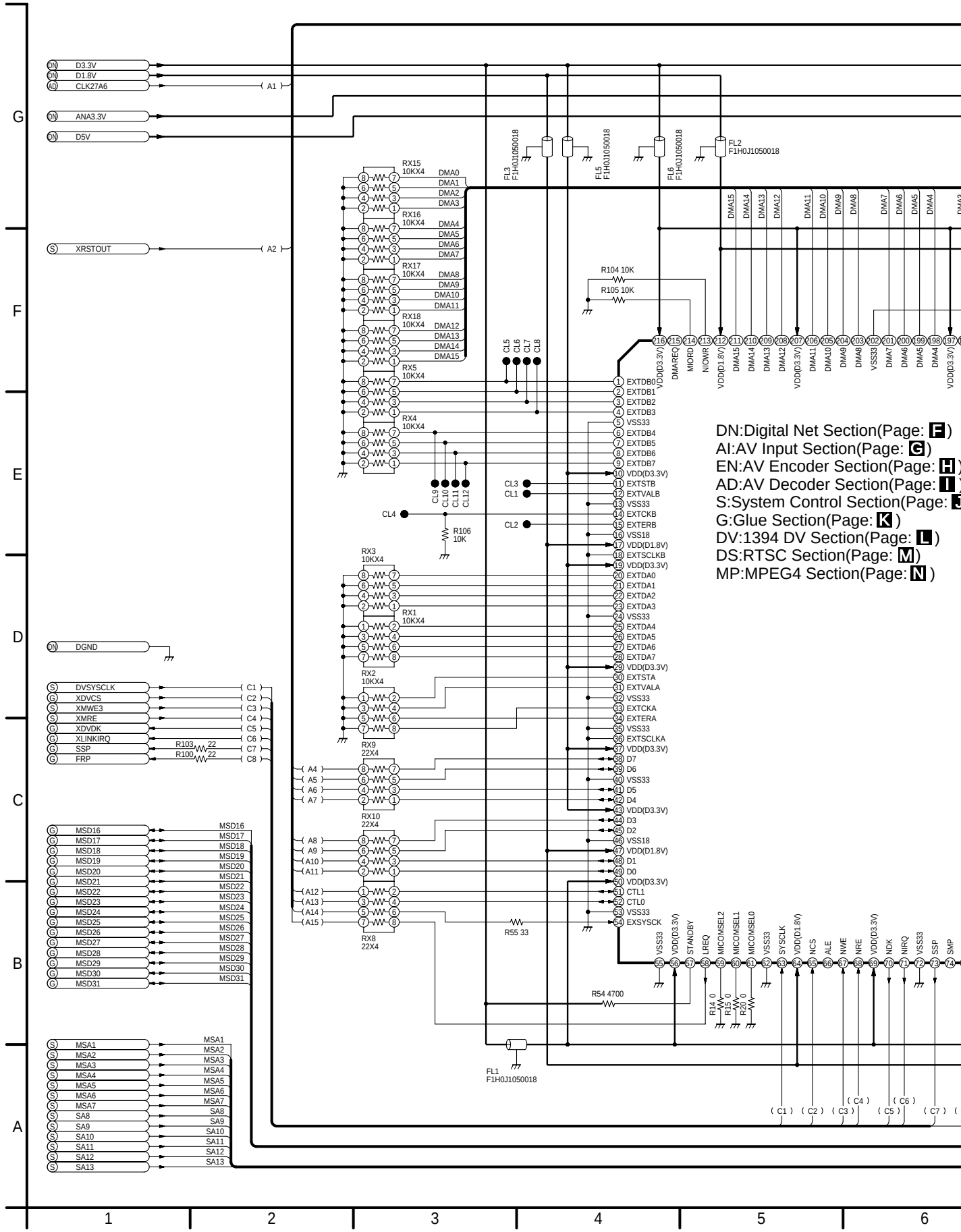
18 | 19 | 20 | 21 | 22

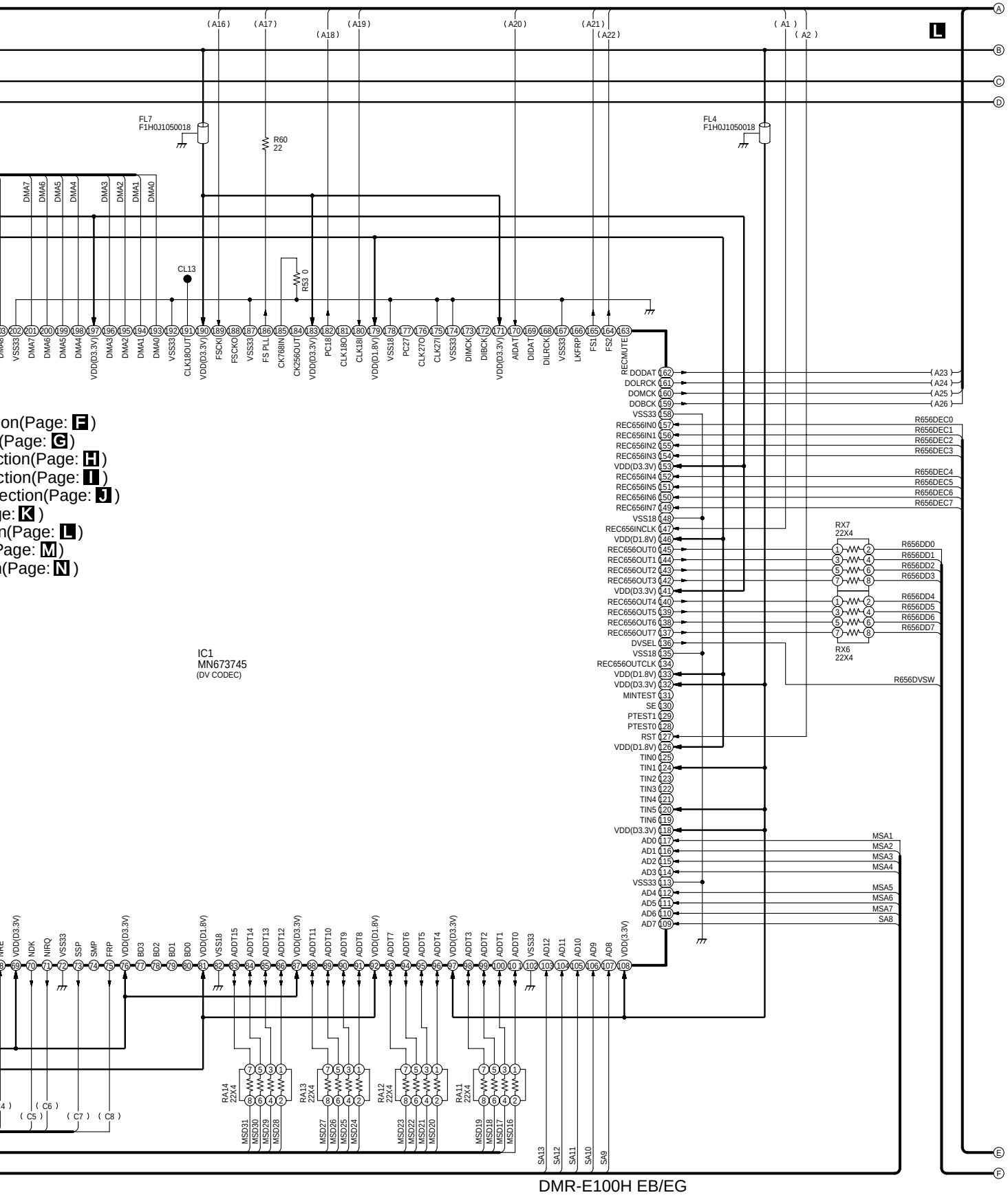


DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

18 | 19 | 20 | 21 | 22

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

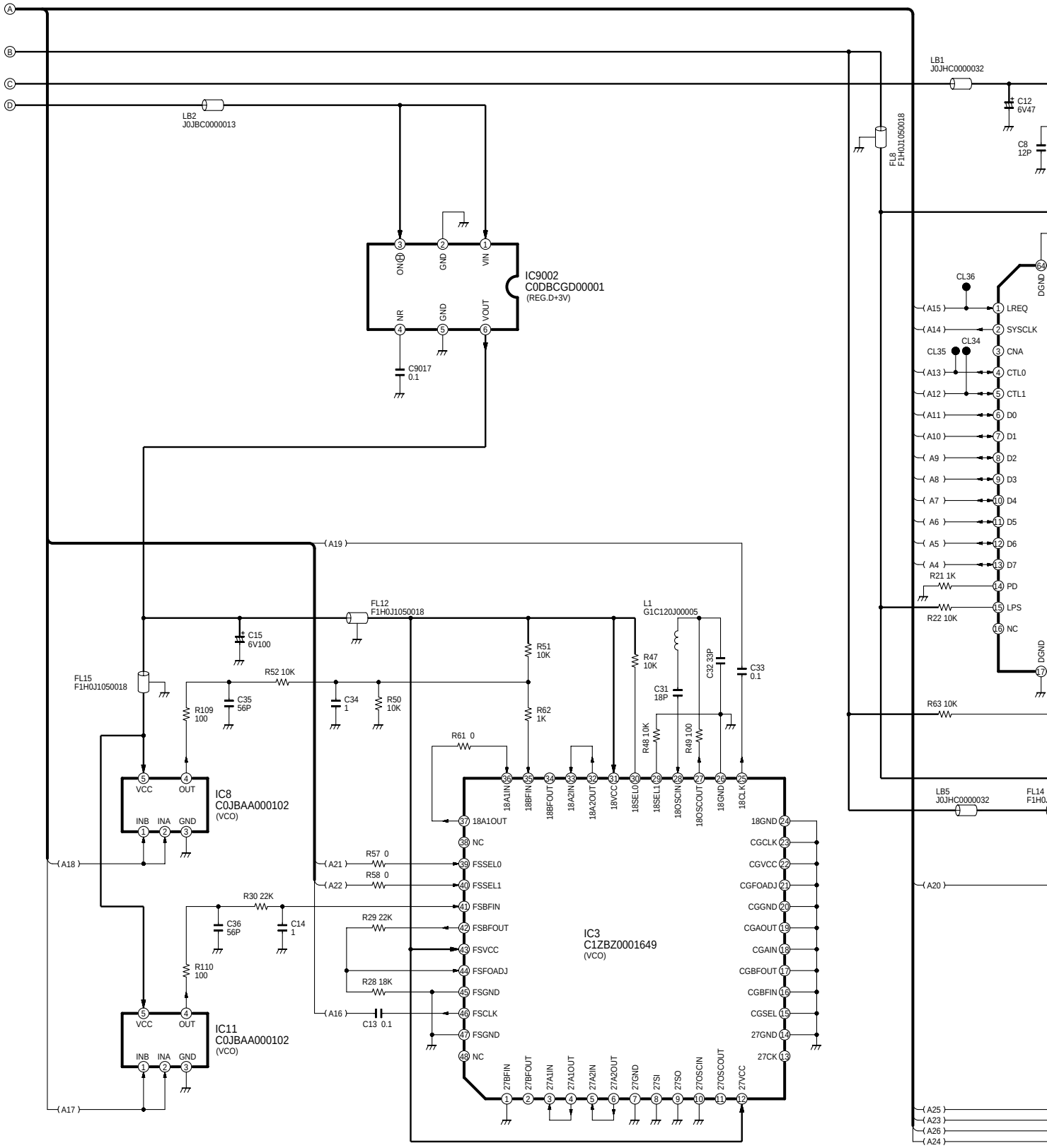




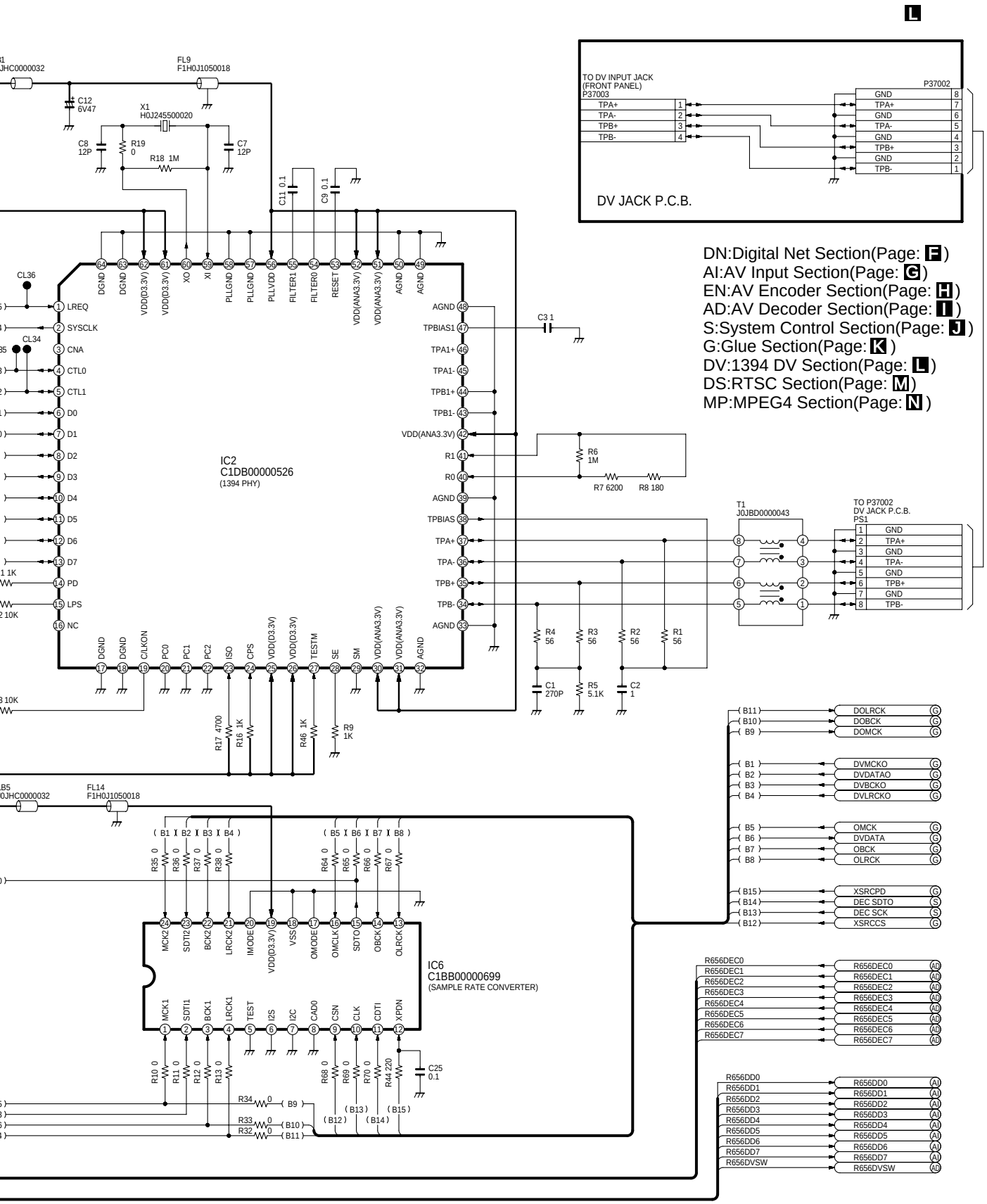
on(Page: F)
(Page: G)
ction(Page: H)
ction(Page: I)
ection(Page: J)
ge: K)
n(Page: L)
Page: M)
(Page: N)

DMR-E100H EB/EG
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H EB/EG
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)



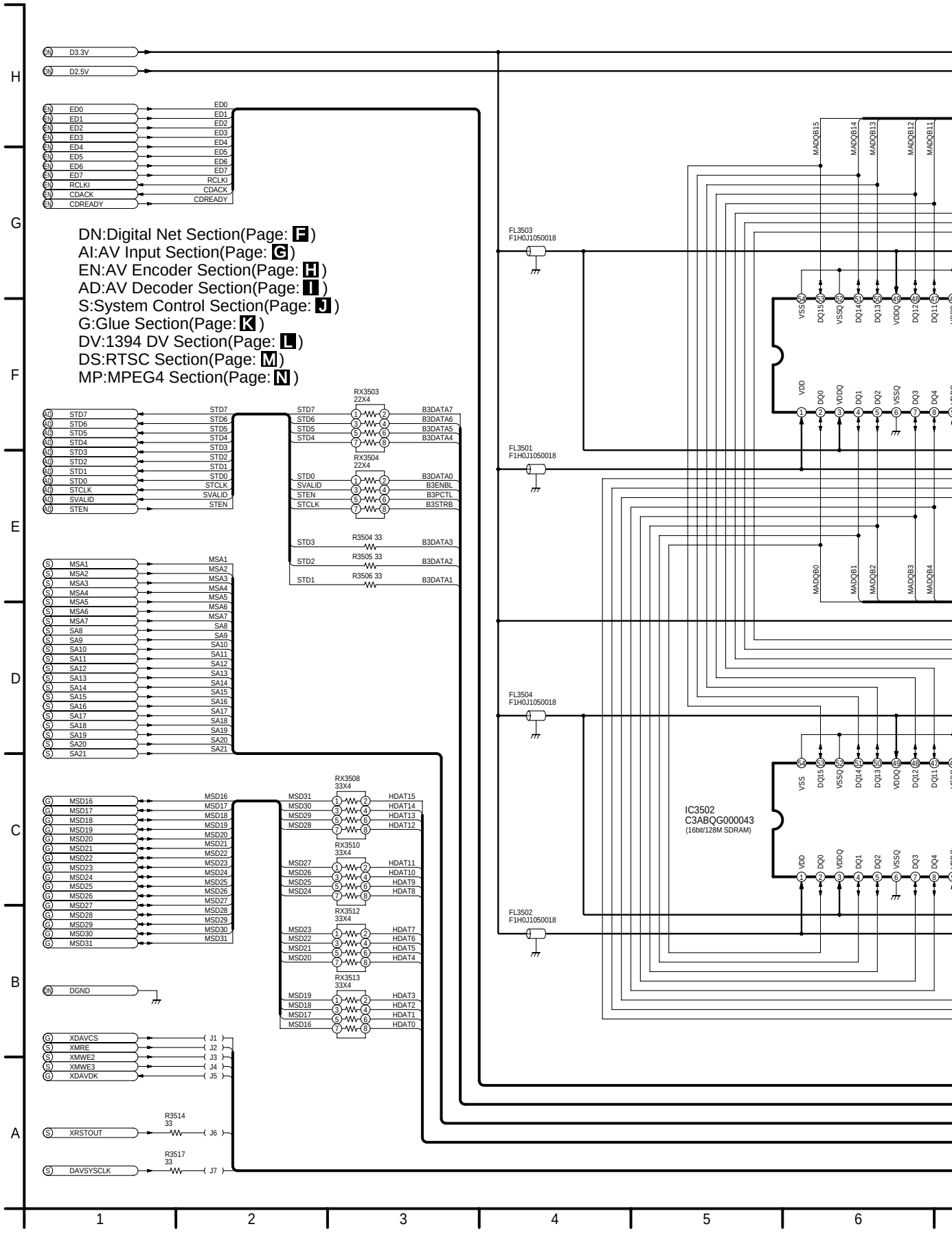
REF NO.37000 SERIES

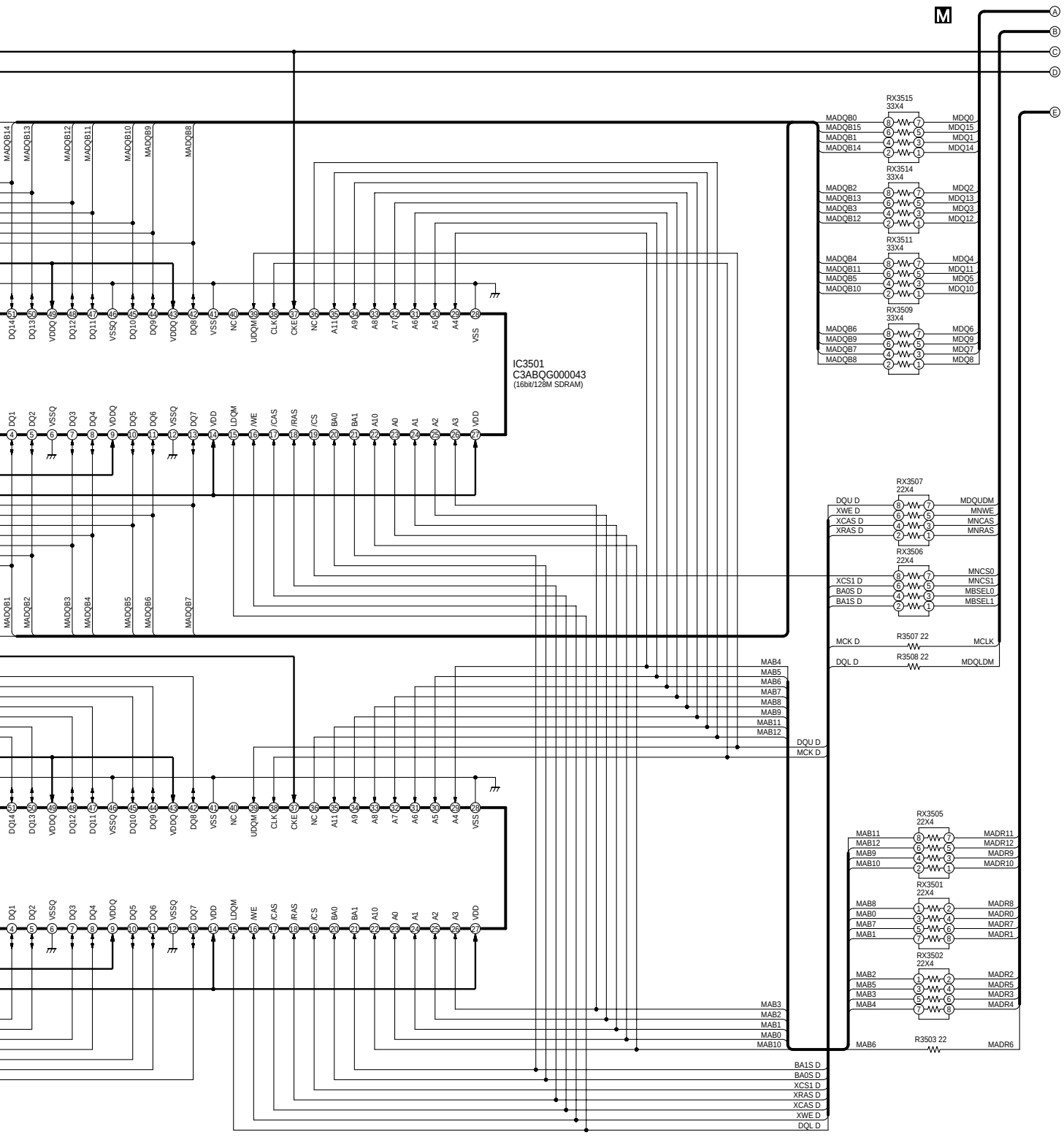
DMR-E100H EB/EG

1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

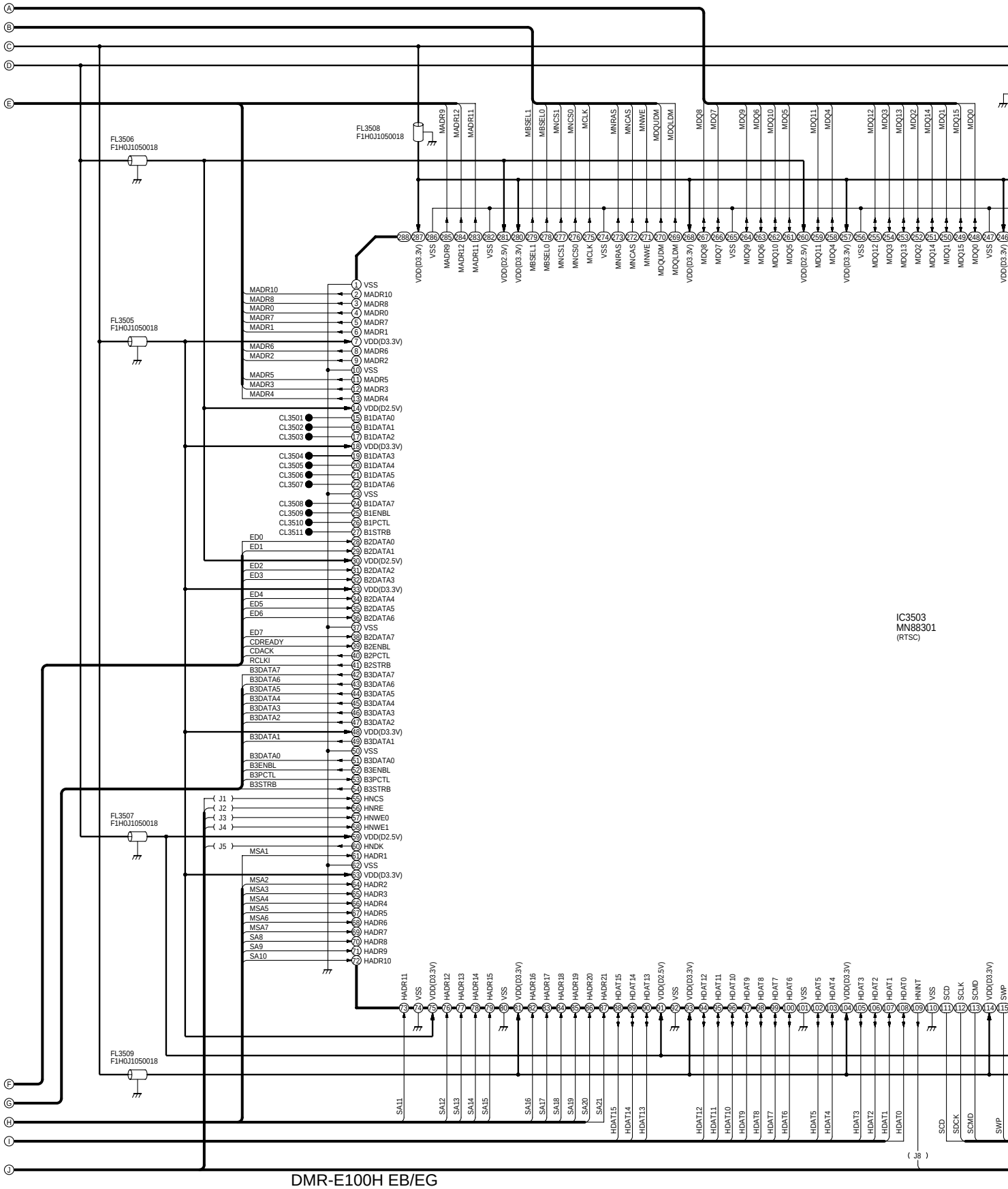
17	18	19	20	21	22

14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)

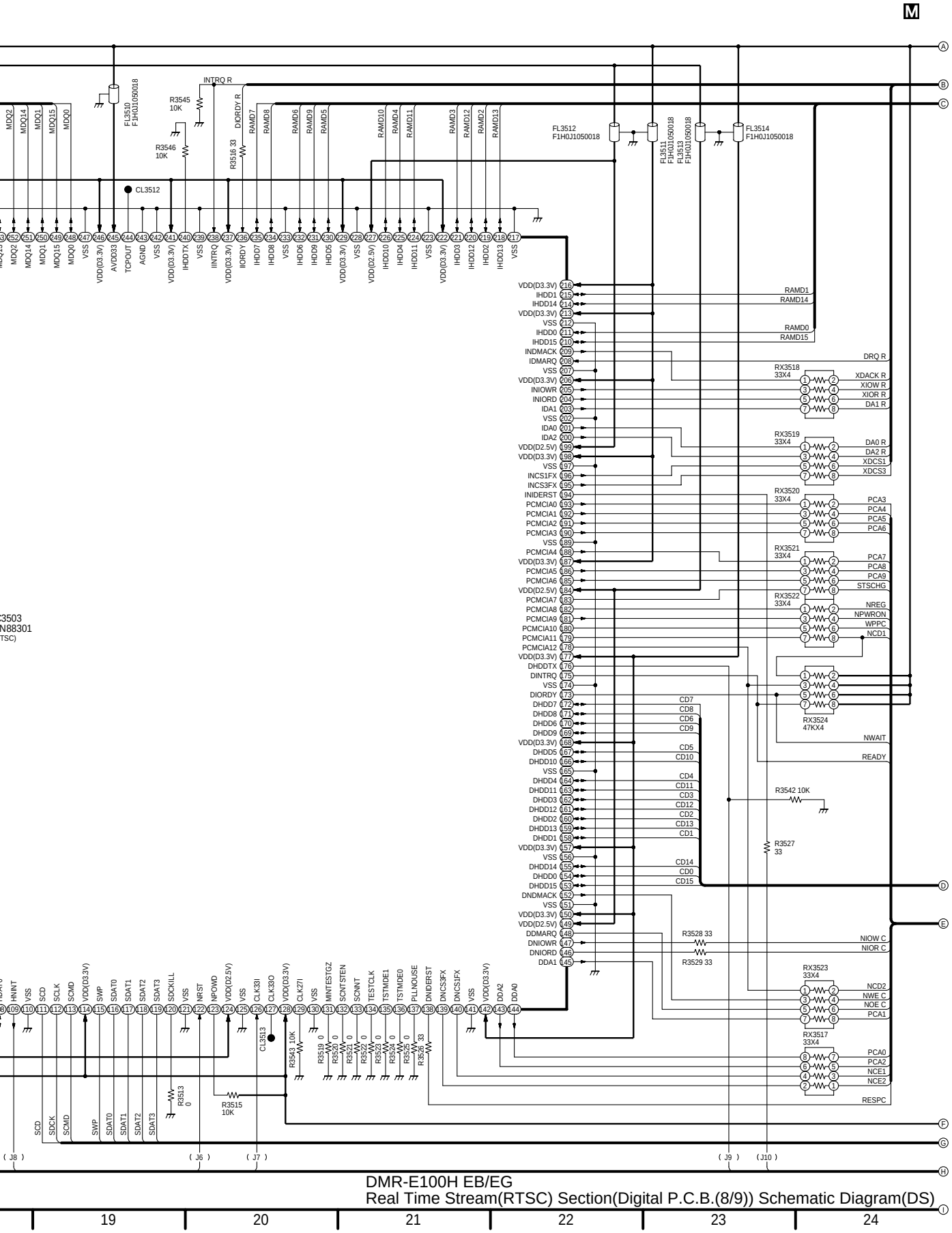




DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

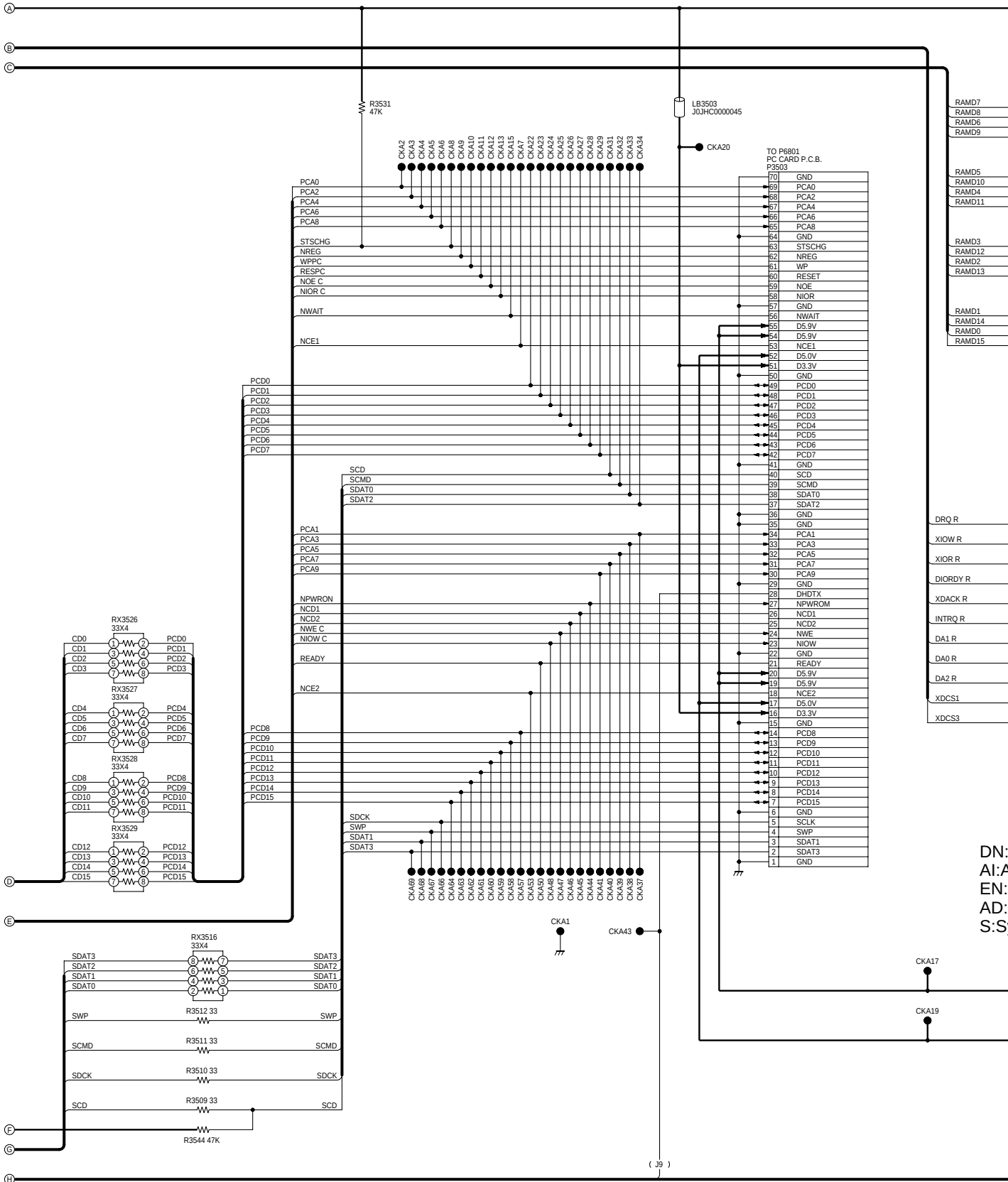


DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

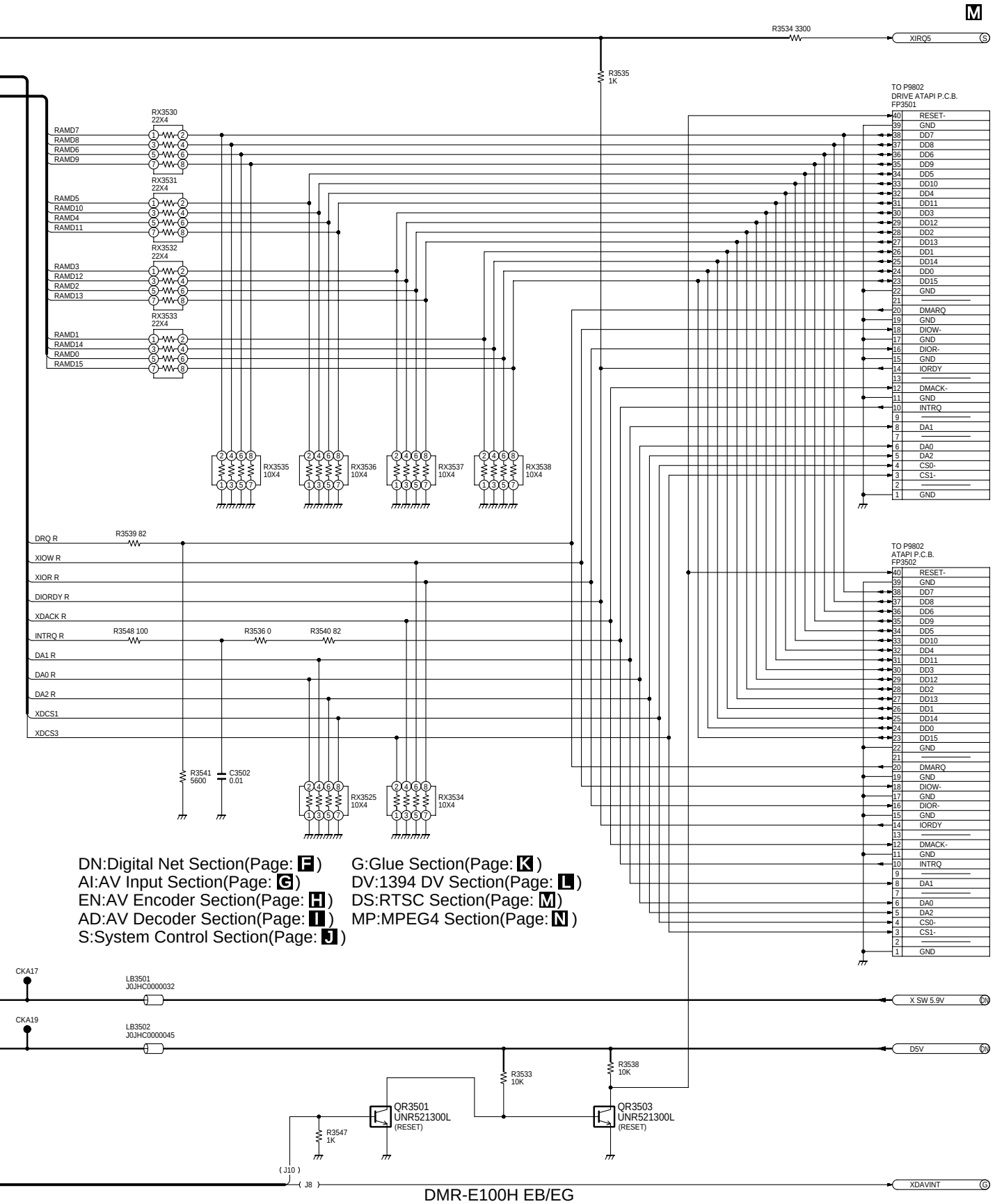


DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

19 20 21 22 23 24



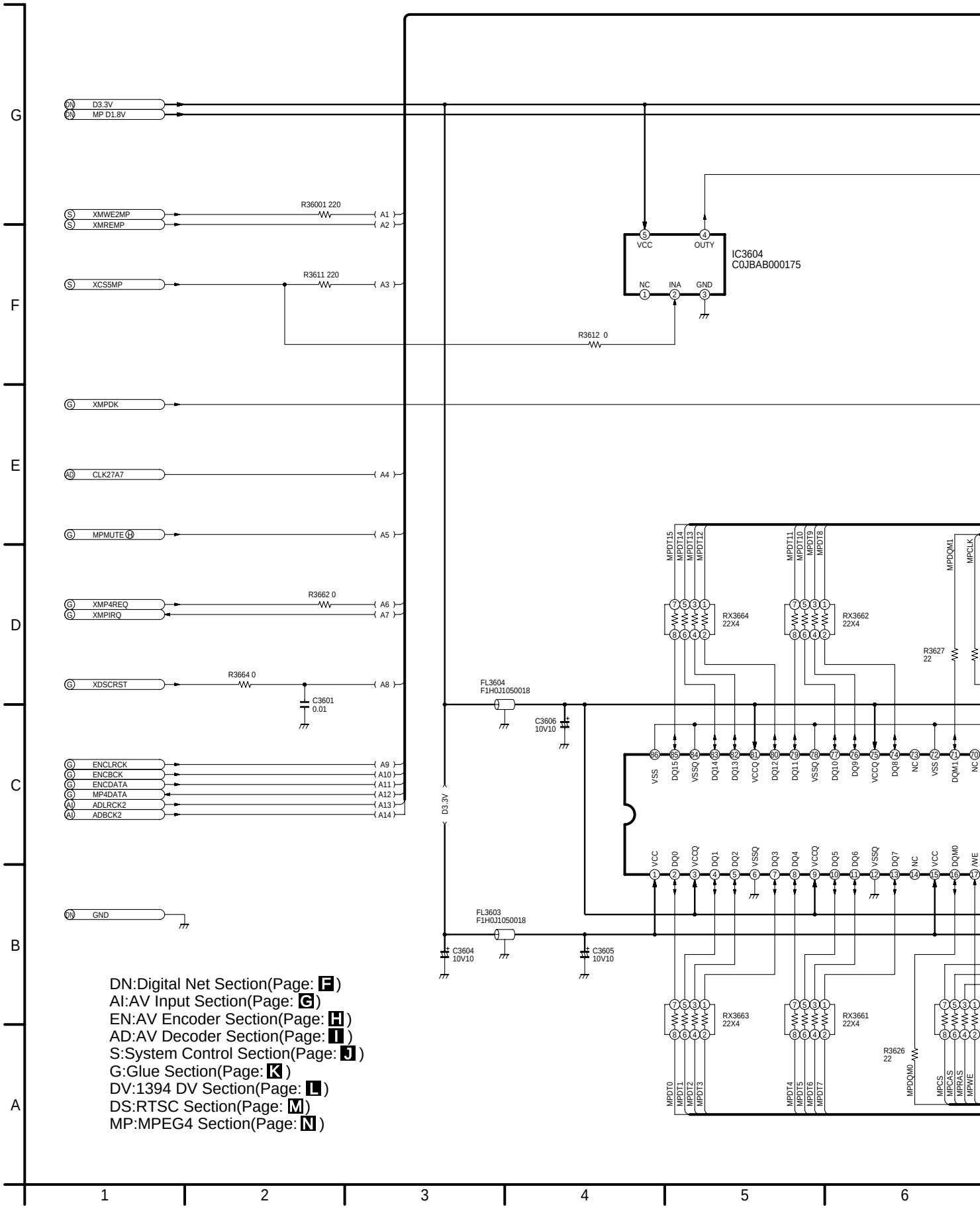
DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

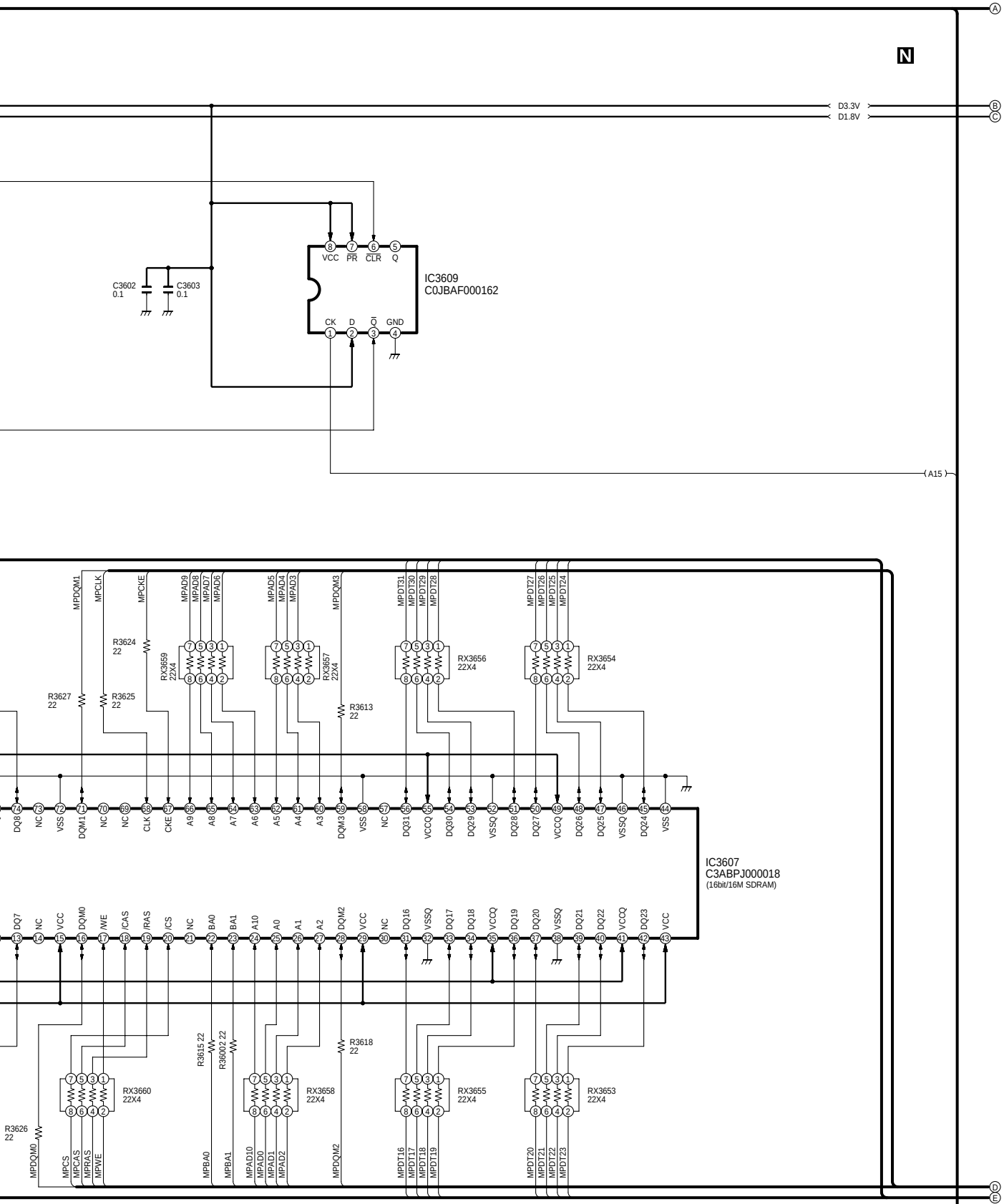


DN:Digital Net Section(Page: F) G:Glue Section(Page: K)
AI:AV Input Section(Page: G) DV:1394 DV Section(Page: L)
EN:AV Encoder Section(Page: H) DS:RTSC Section(Page: M)
AD:AV Decoder Section(Page: I) MP:MPEG4 Section(Page: N)
S:System Control Section(Page: J)

DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

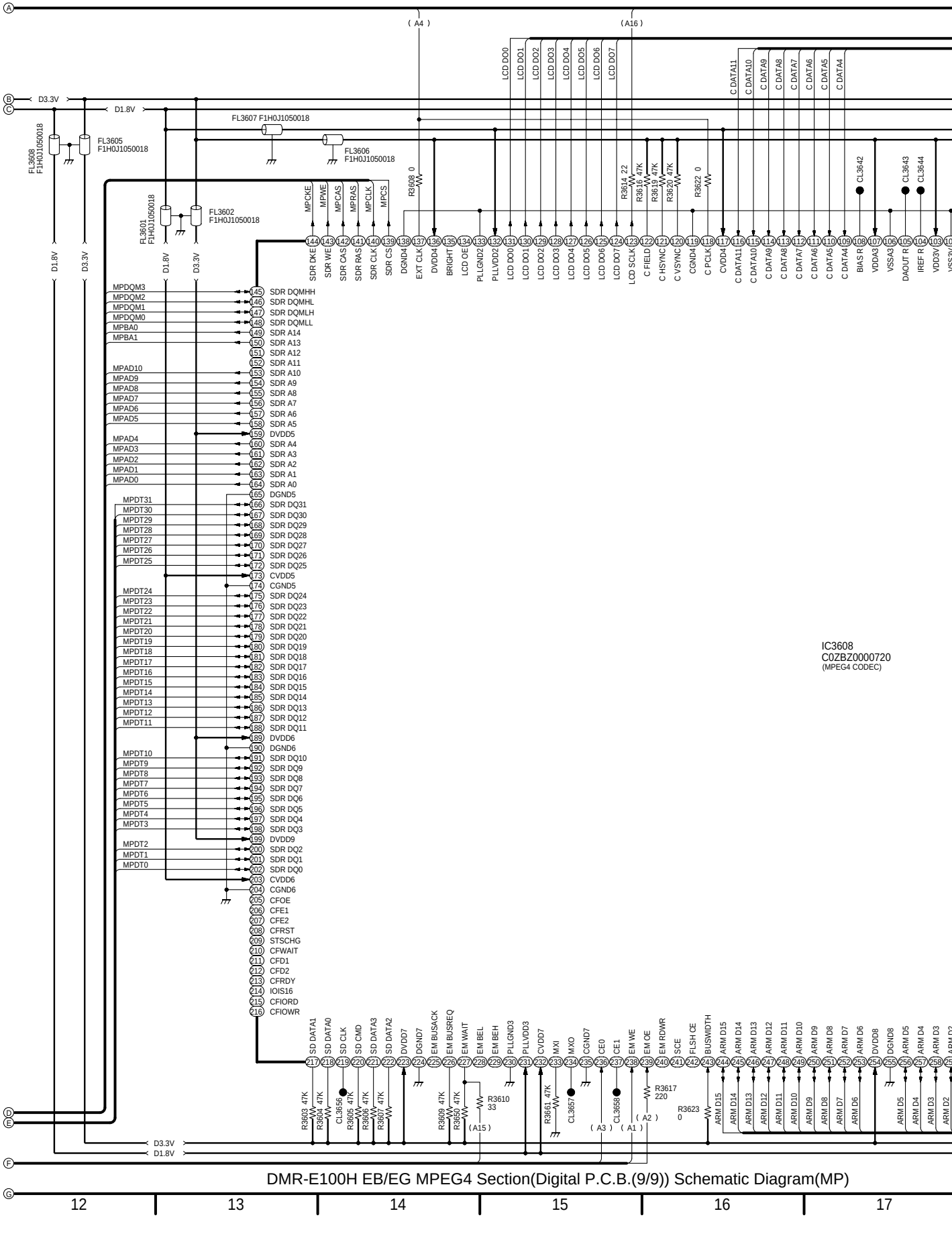
14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)





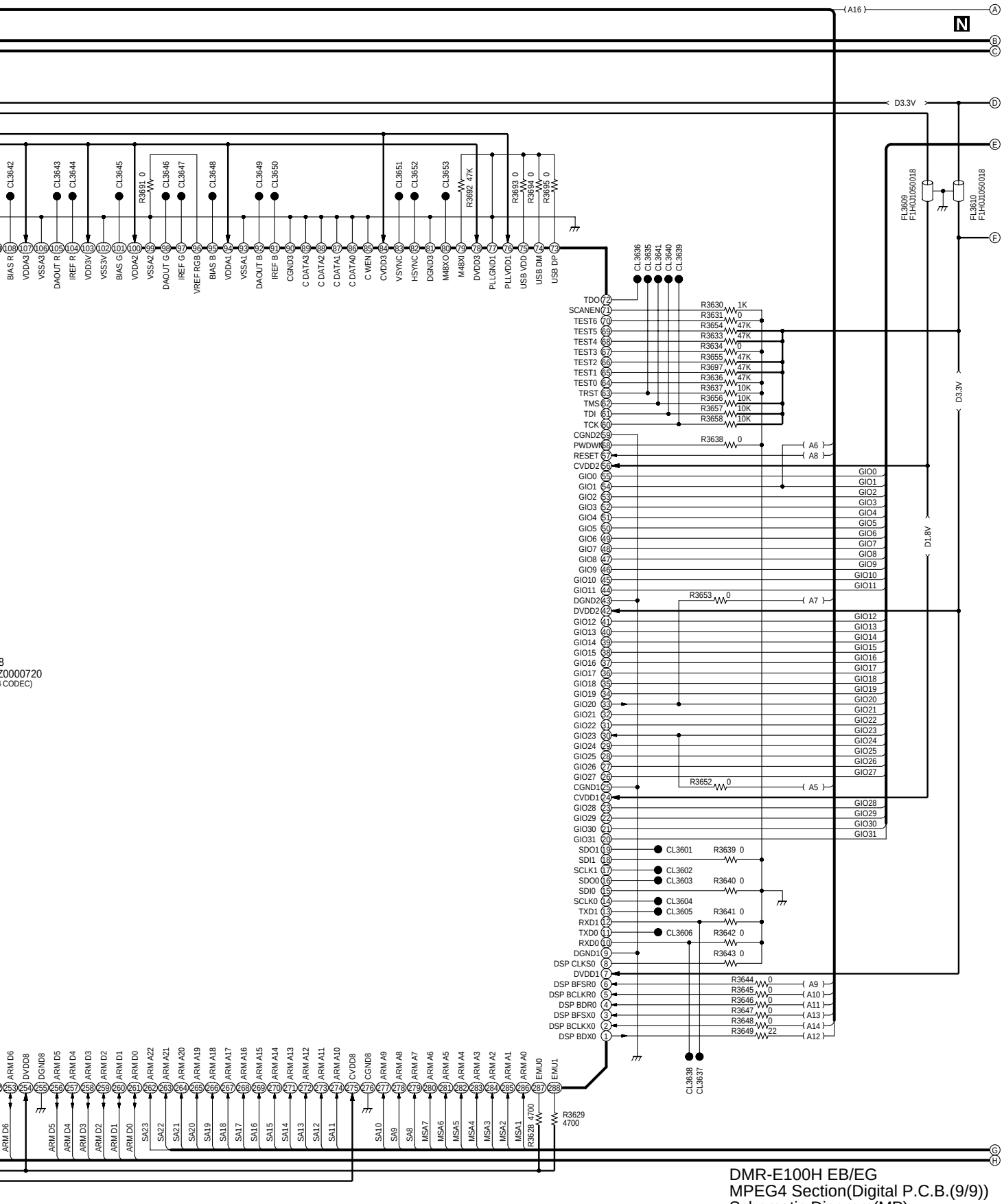
DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

6 | 7 | 8 | 9 | 10 | 11

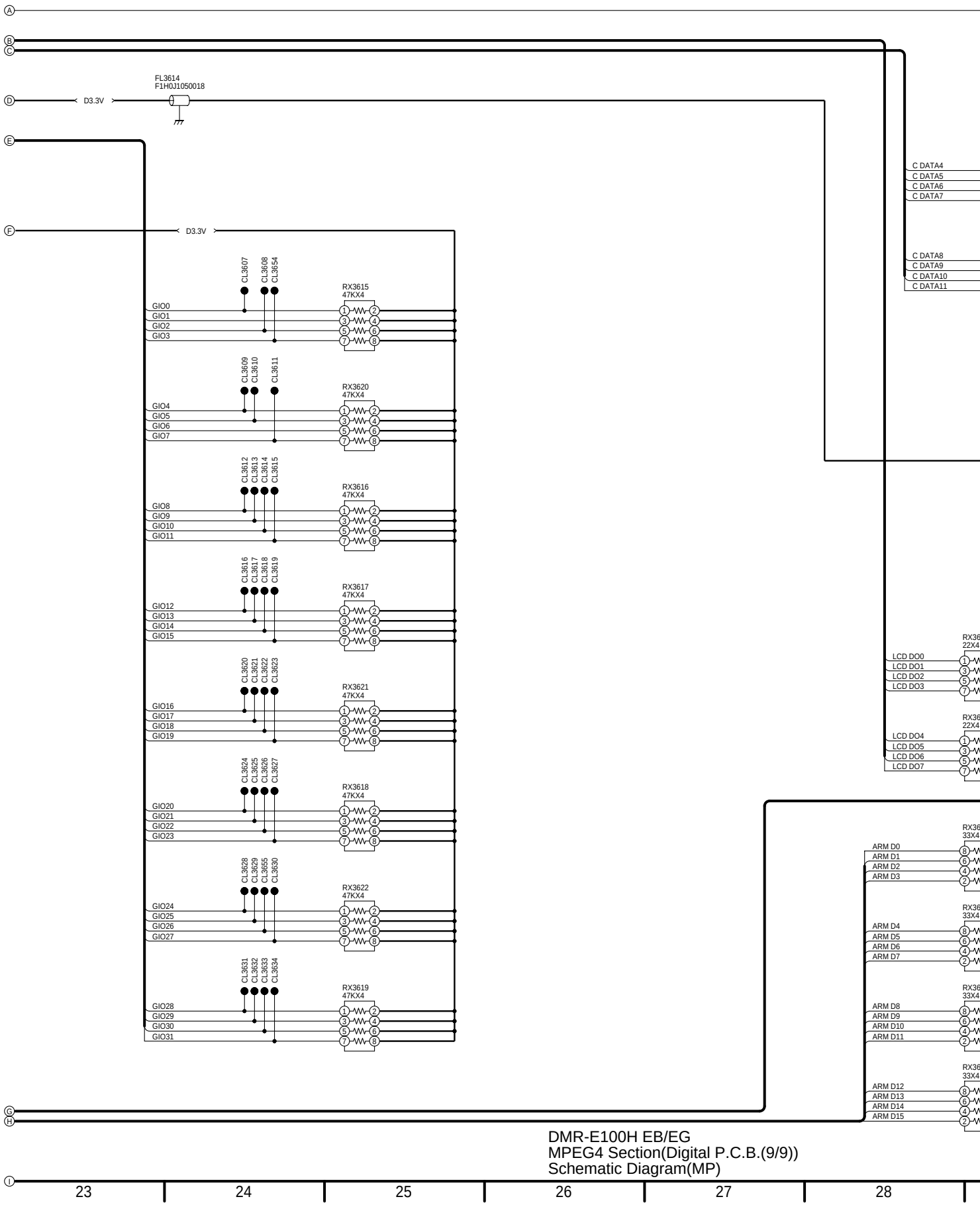


DMR-E100H EB/EG MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)

12 13 14 15 16 17

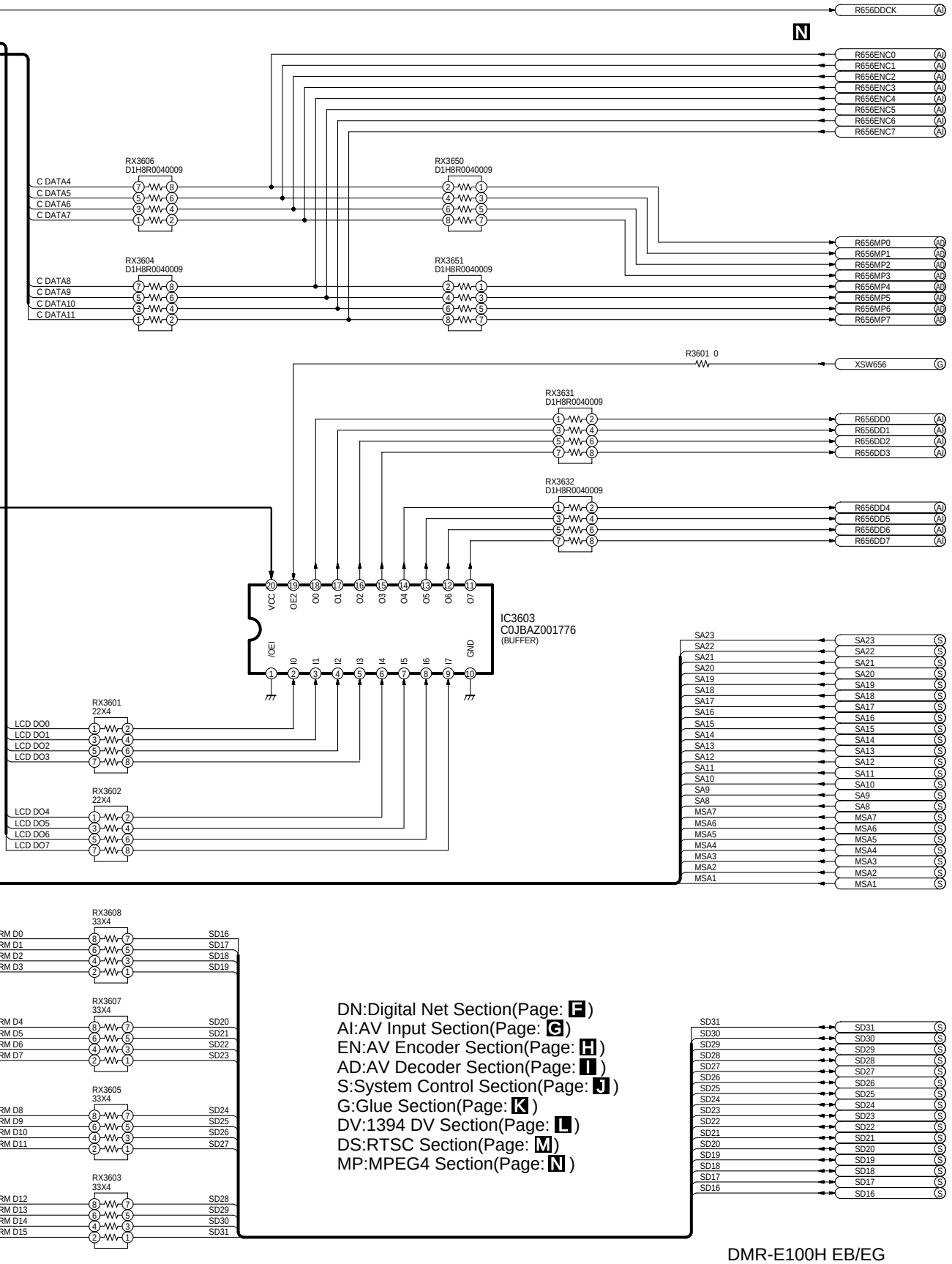


DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)



DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

23 24 25 26 27 28

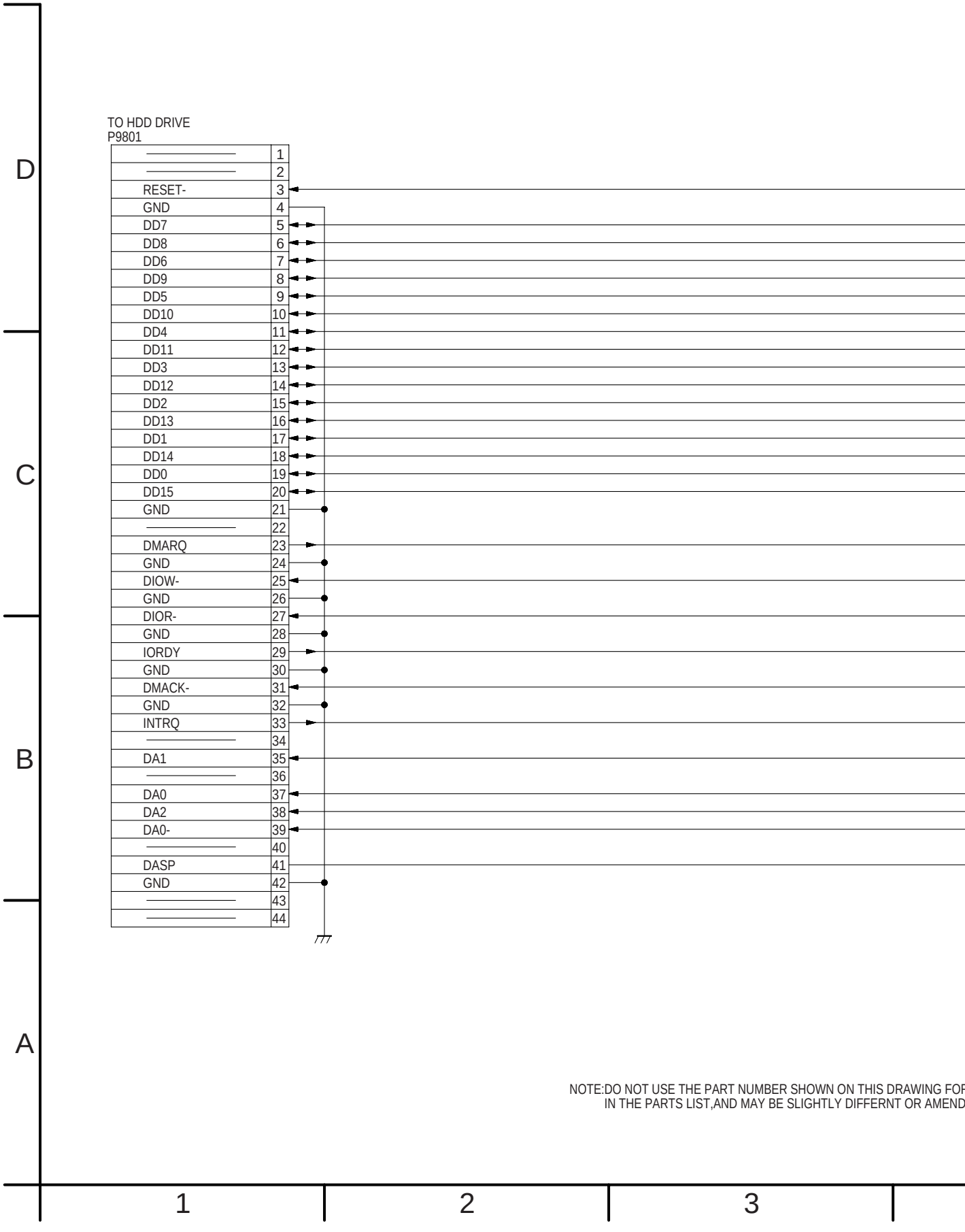


DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

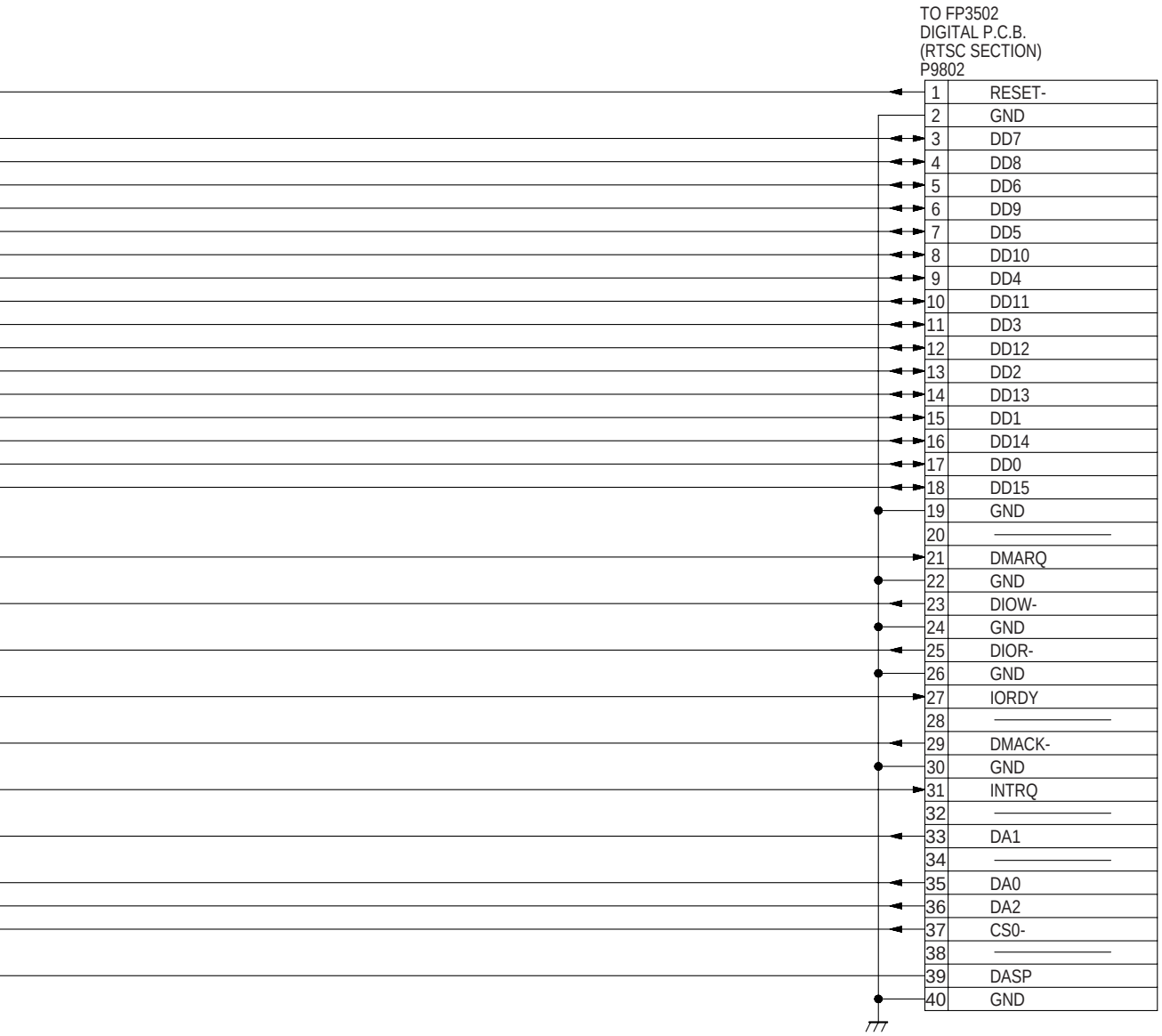
DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

28 | 29 | 30 | 31 | 32 | 33

14.17. ATAPI Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMEND

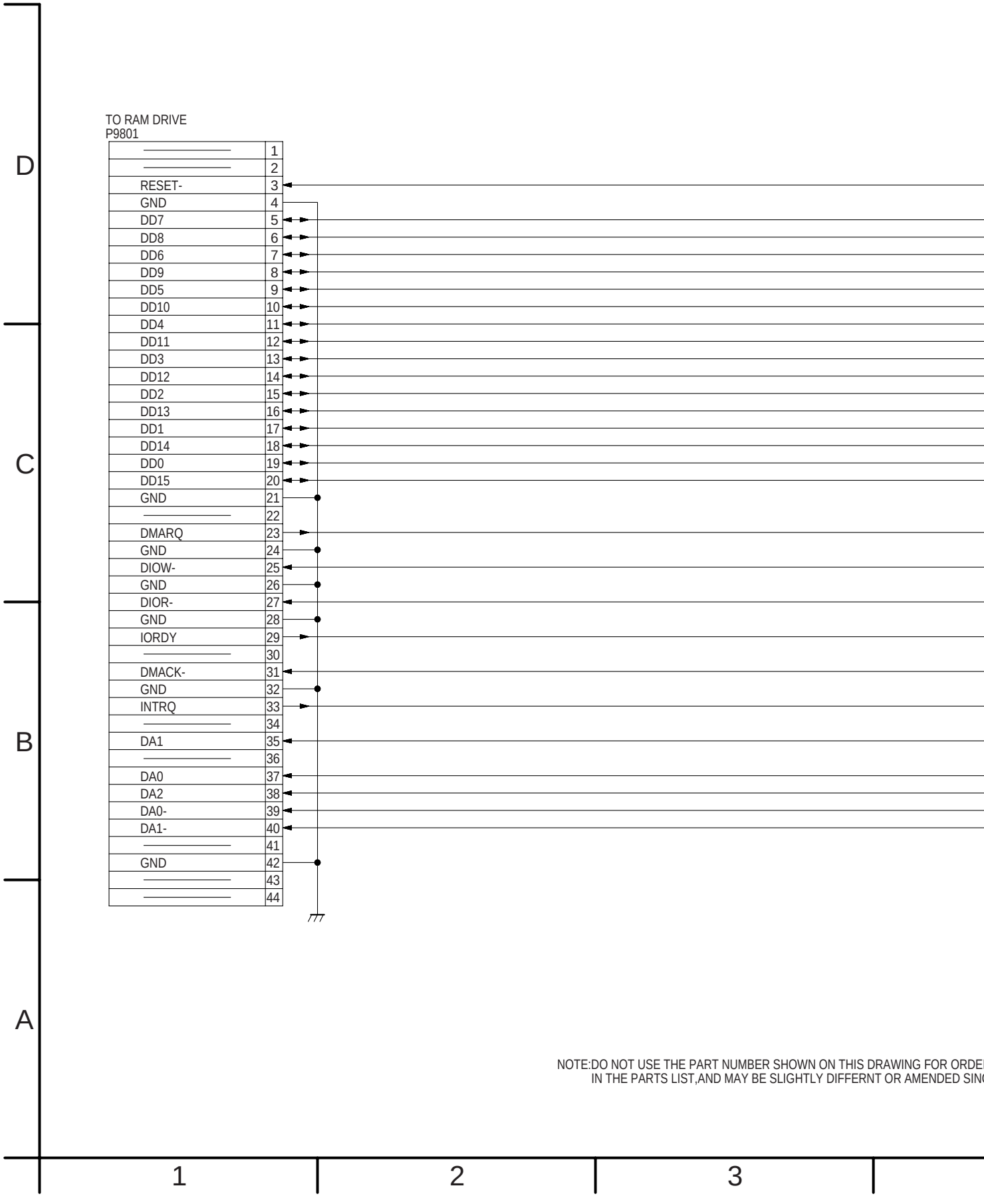


THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
FFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

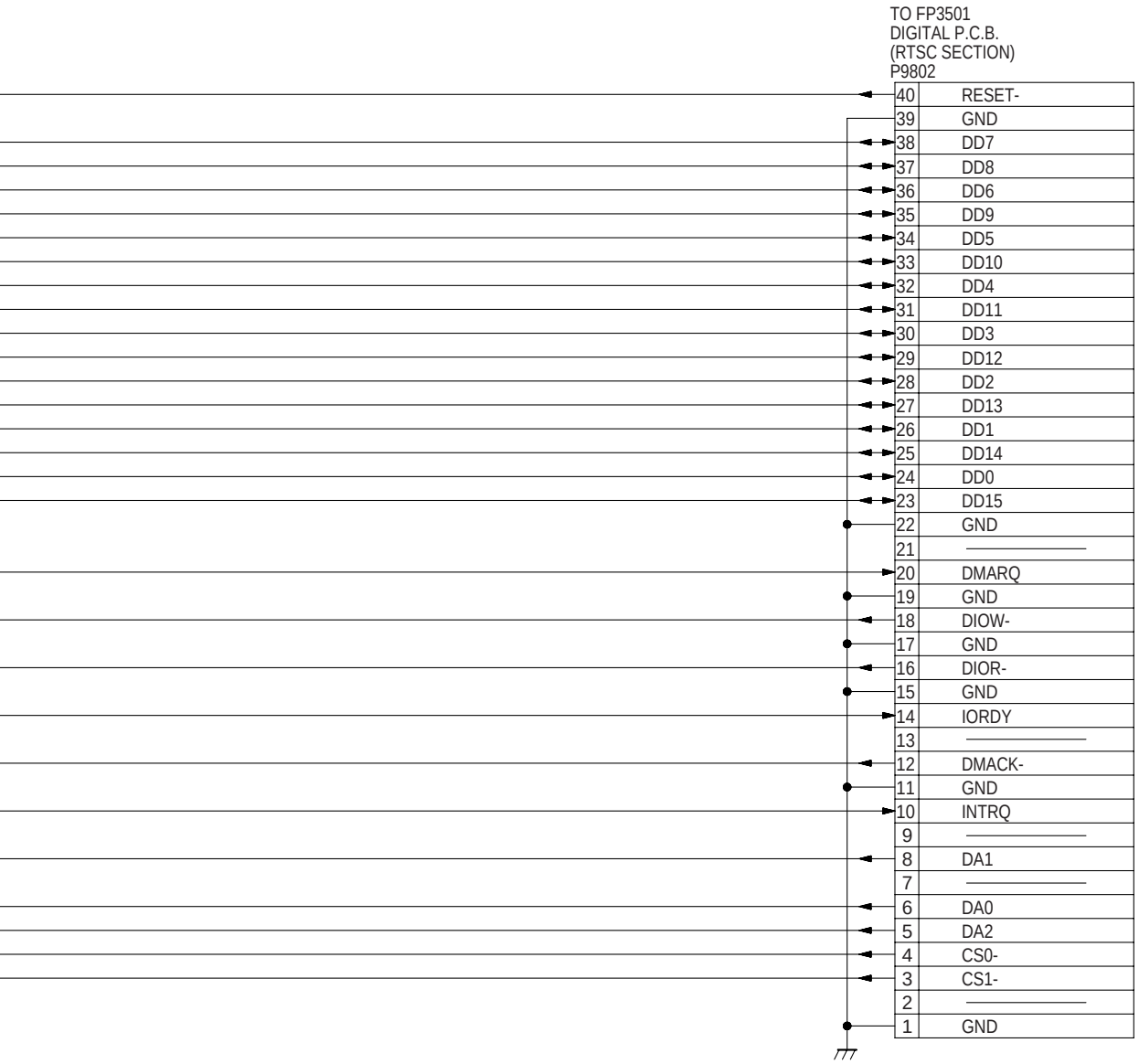
DMR-E100H EB/EG
ATAPI Schematic Diagram

4 5 6

14.18. Drive ATAPI Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDE
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SIN

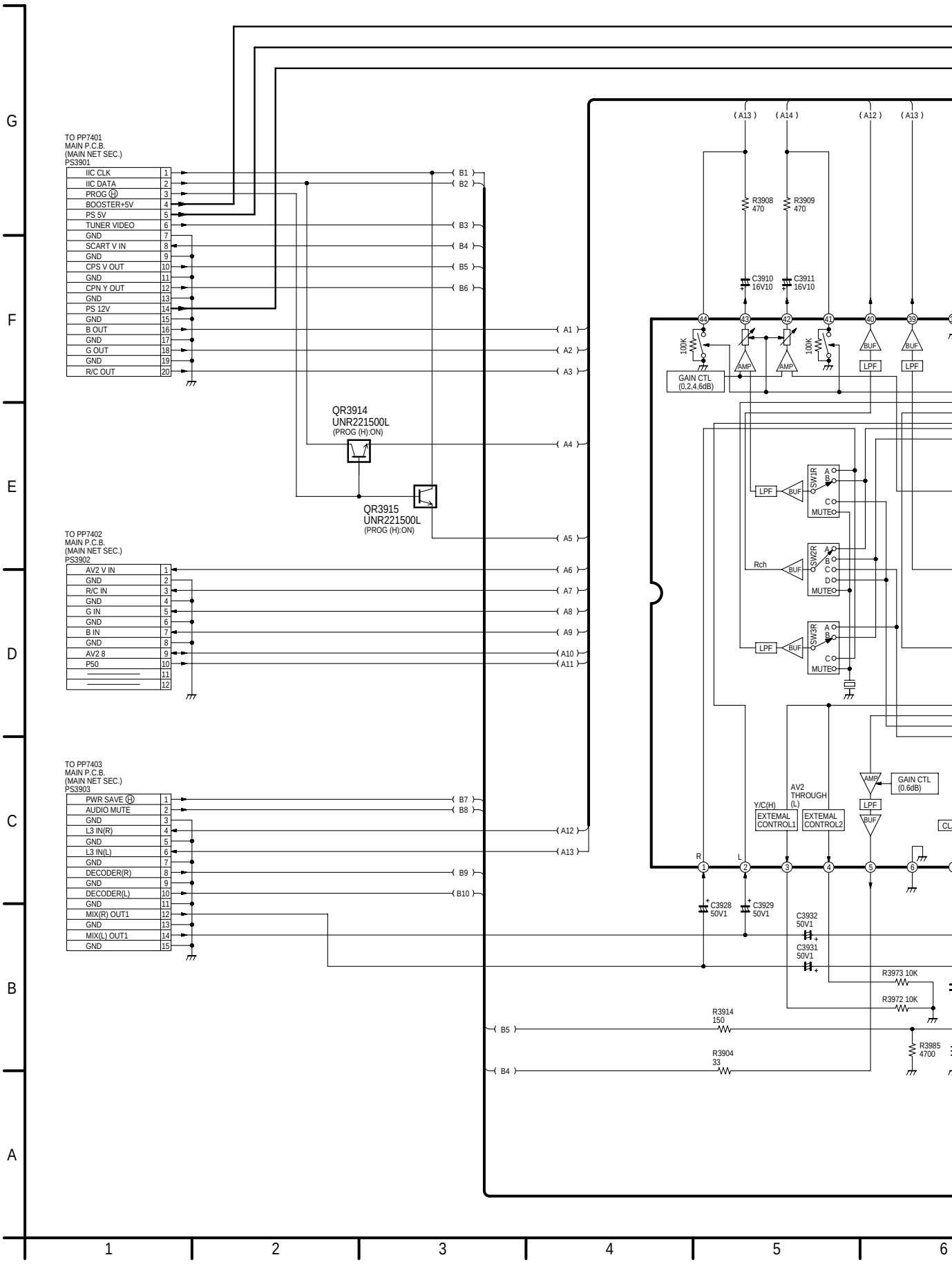


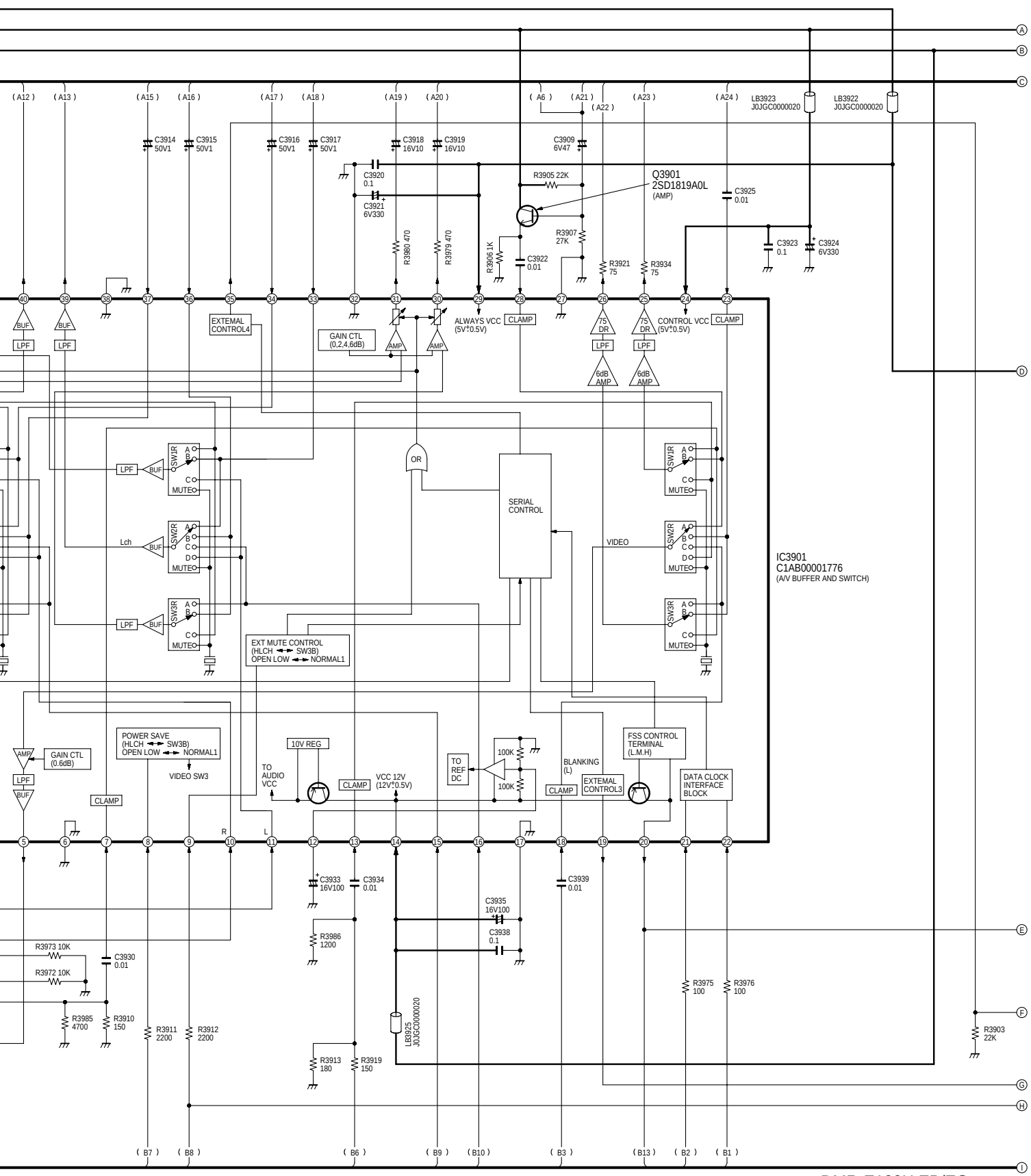
AWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
DRIVE ATAPI Schematic Diagram

4 | 5 | 6

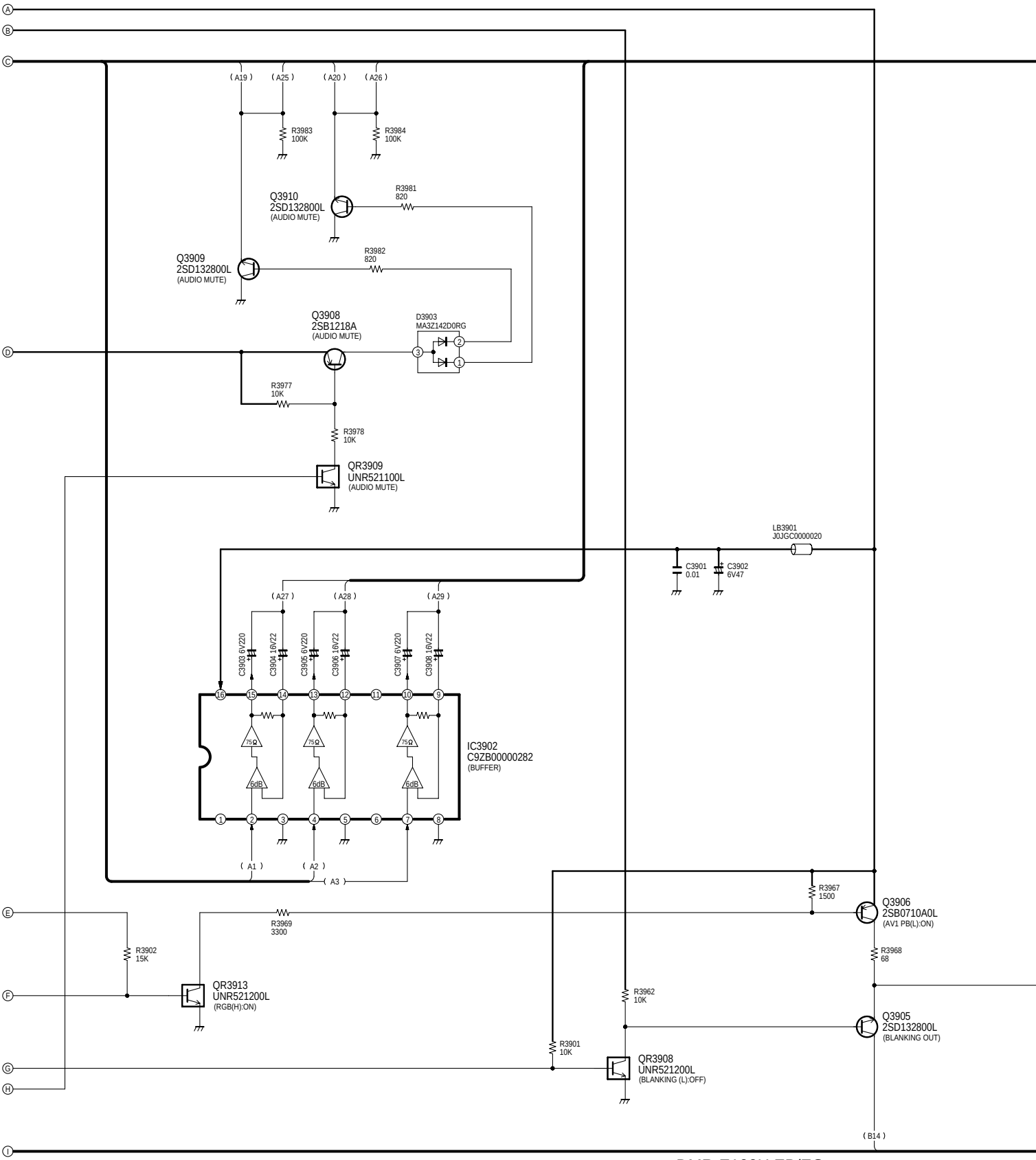
14.19. Scart Schematic Diagram





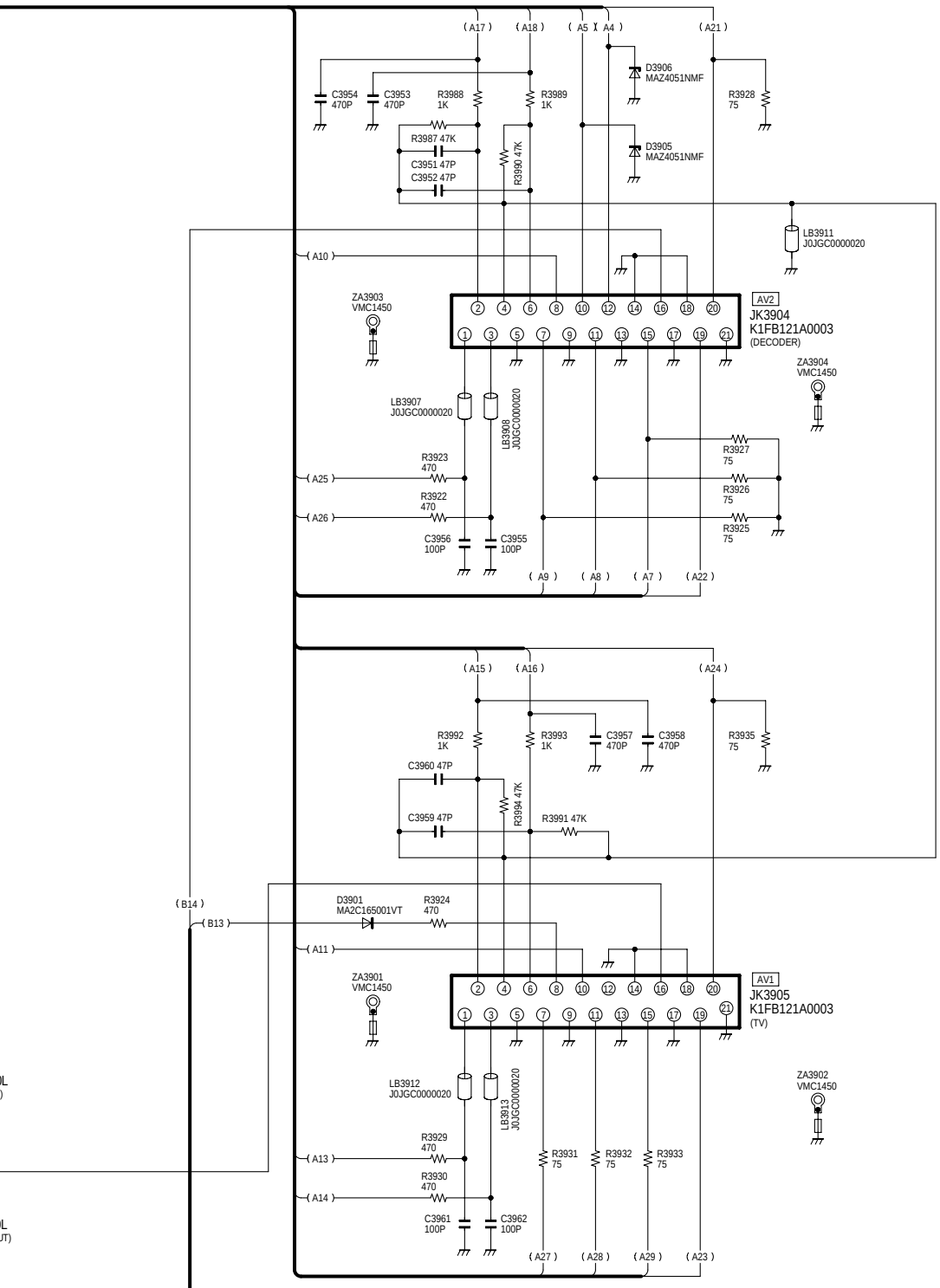
DMR-E100H EB/EG
Scart Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H EB/EG
Scart Schematic Diagram

NOTE:DO NO
IN THE PA



AV2

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1

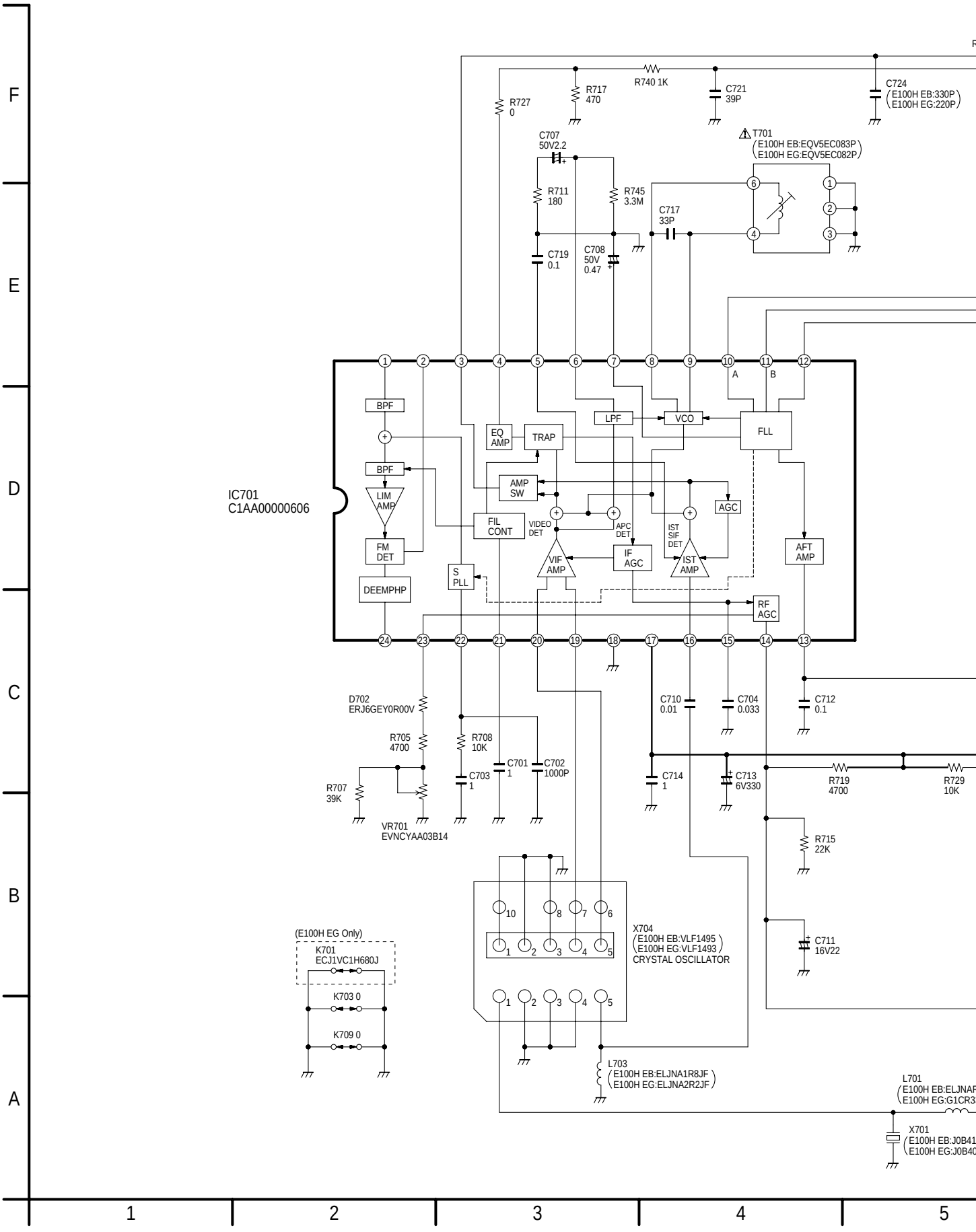
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

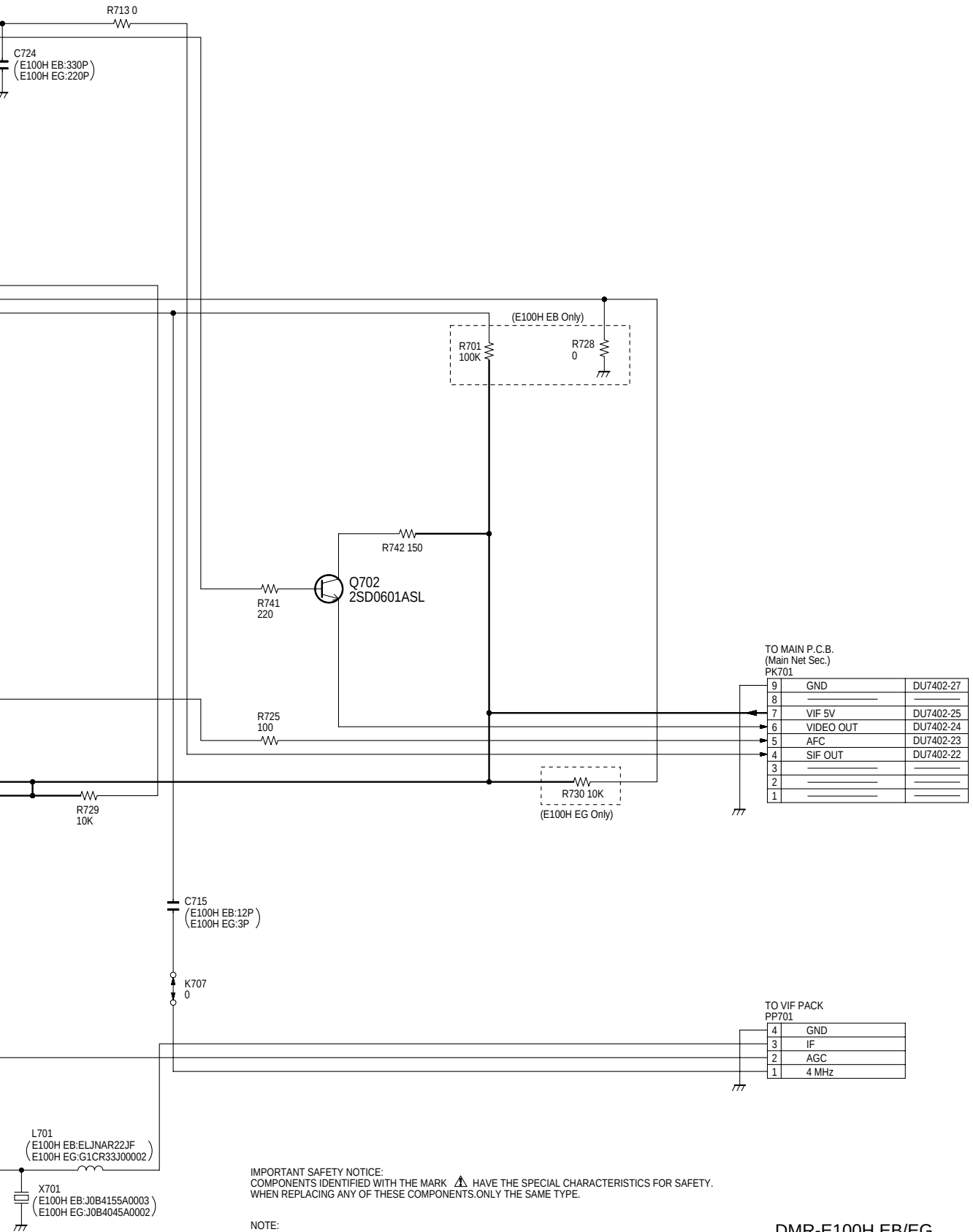
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Scart Schematic Diagram

18	19	20	21	22

14.20. VIF Decorder Schematic Diagram





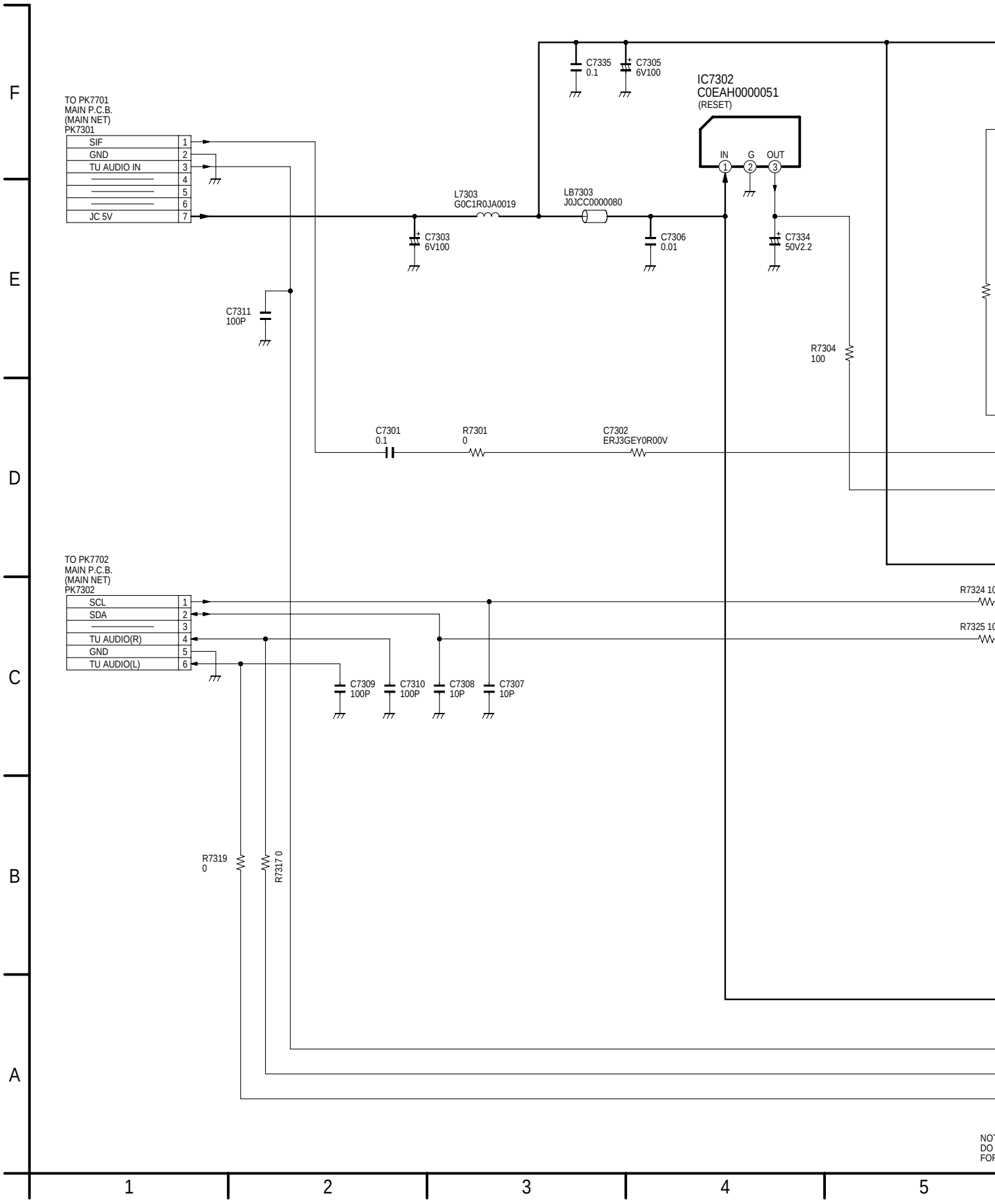
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

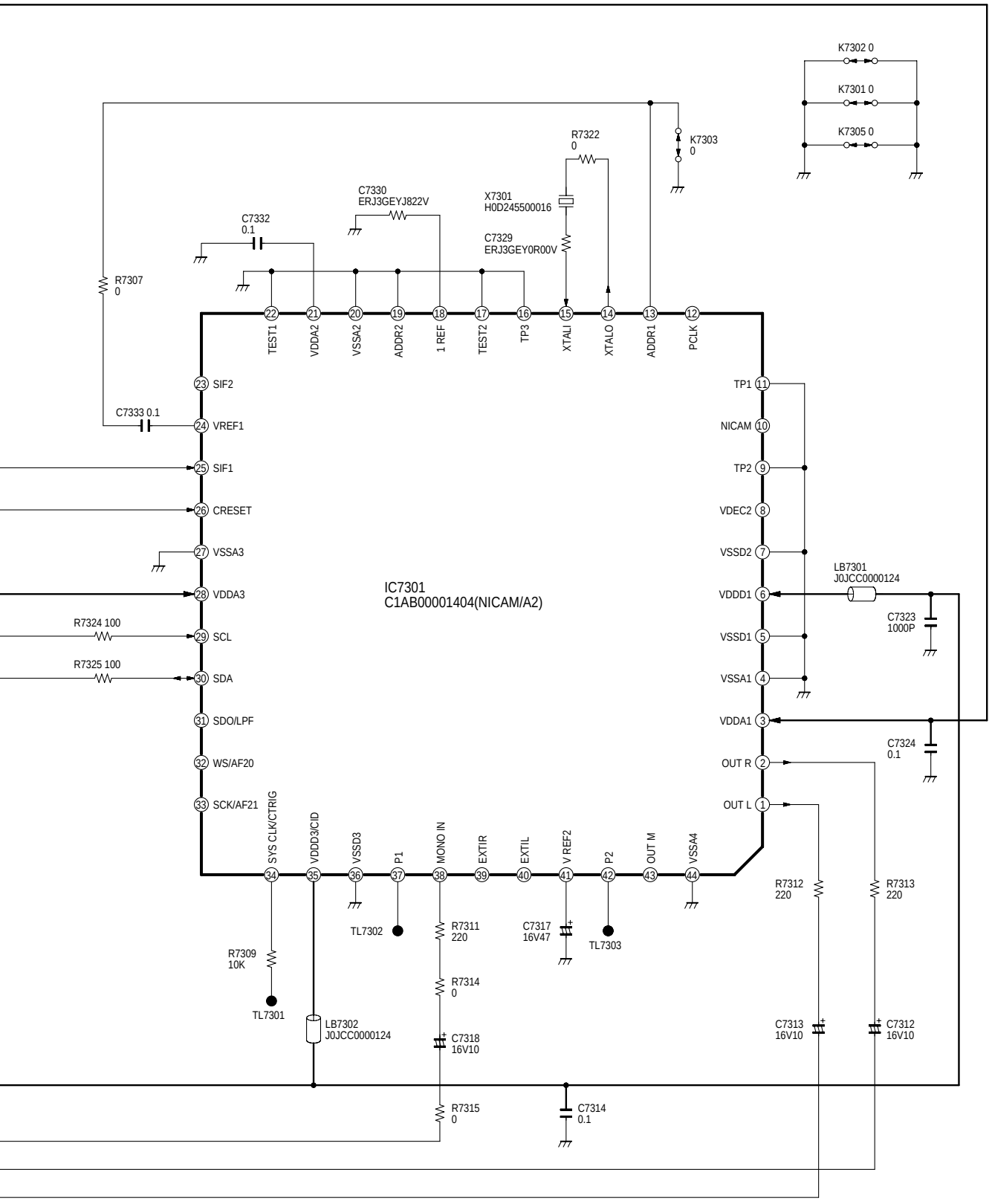
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
VIF Decoder Schematic Diagram

5 | 6 | 7 | 8

14.21. Nicam/Decorder Schematic Diagram



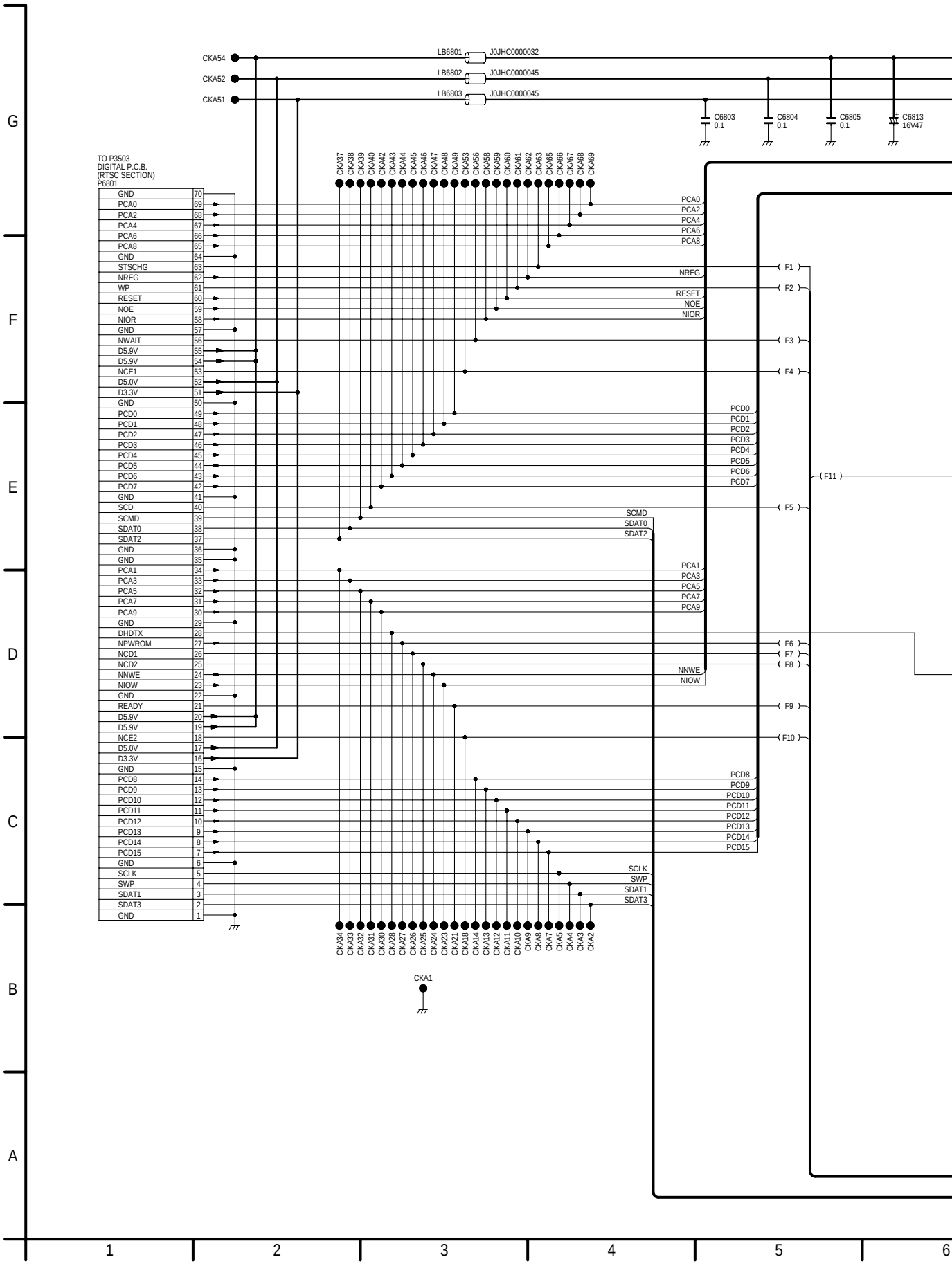


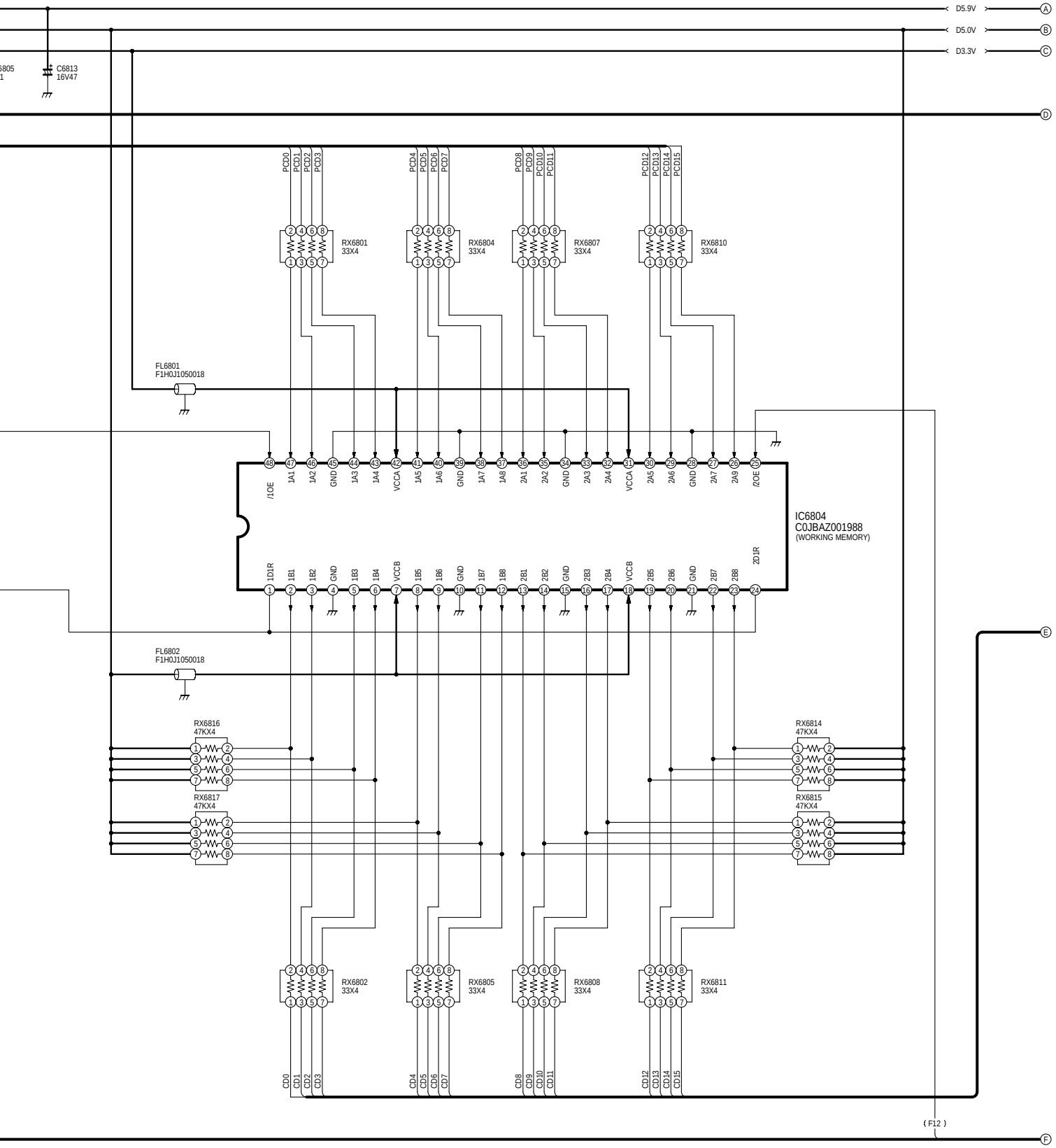
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
Nicam/Decoder Schematic Diagram

5 | 6 | 7 | 8

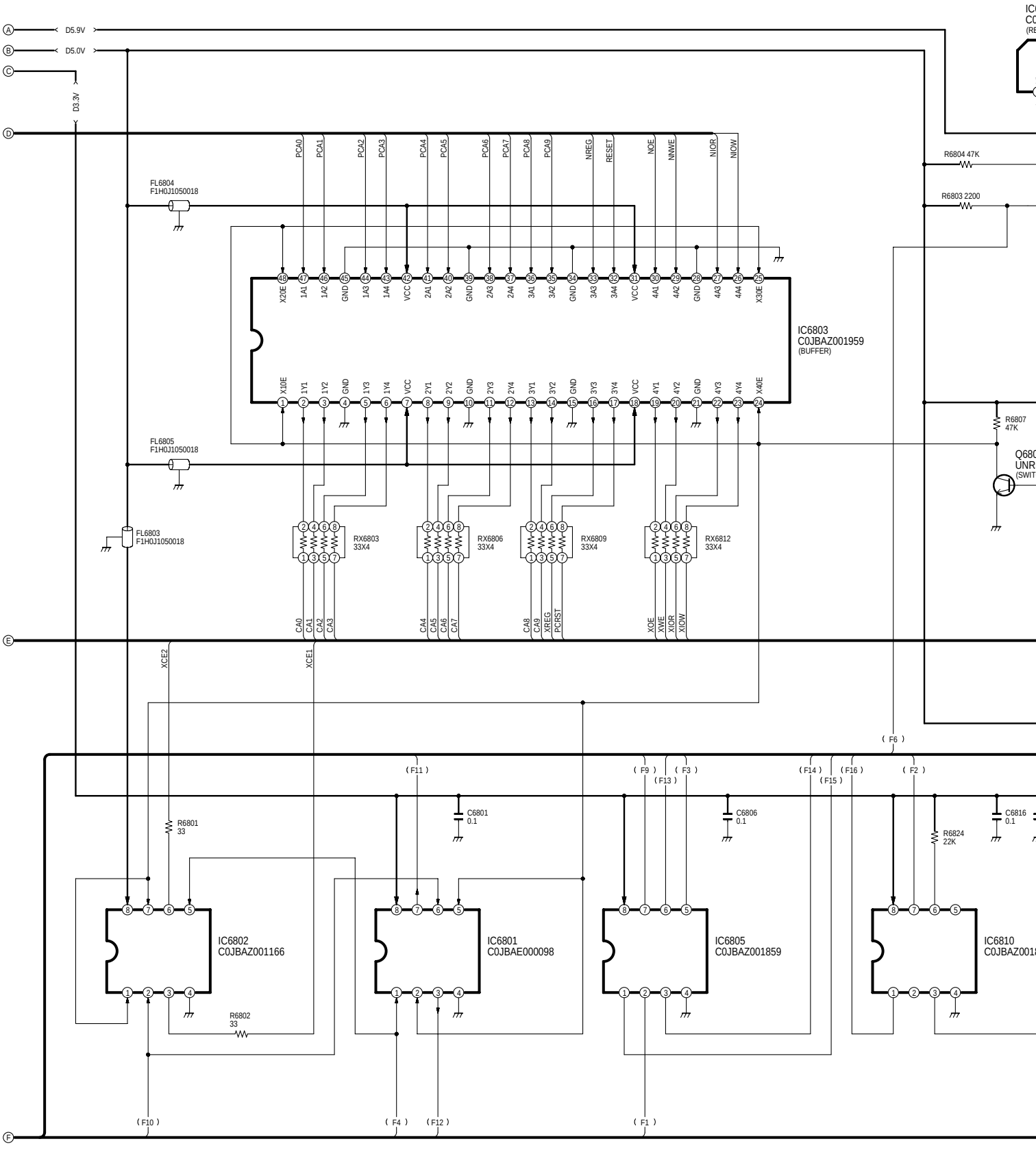
14.22. SD & PC Card Schematic Diagram





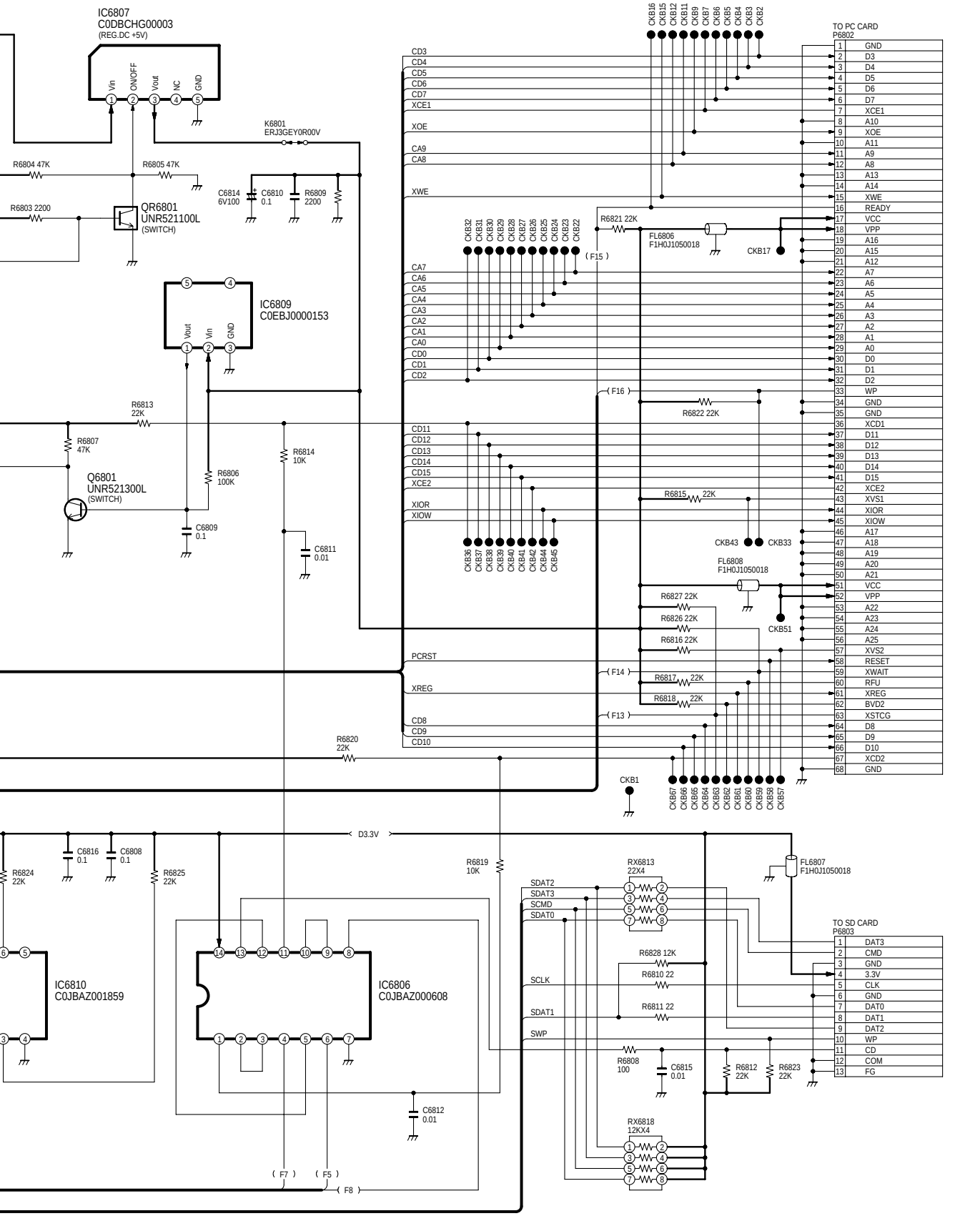
DMR-E100H EB/EG
SD & PC Card Schematic Diagram

6 7 8 9 10 11



DMR-E100H EB/EG
SD & PC Card Schematic Diagram

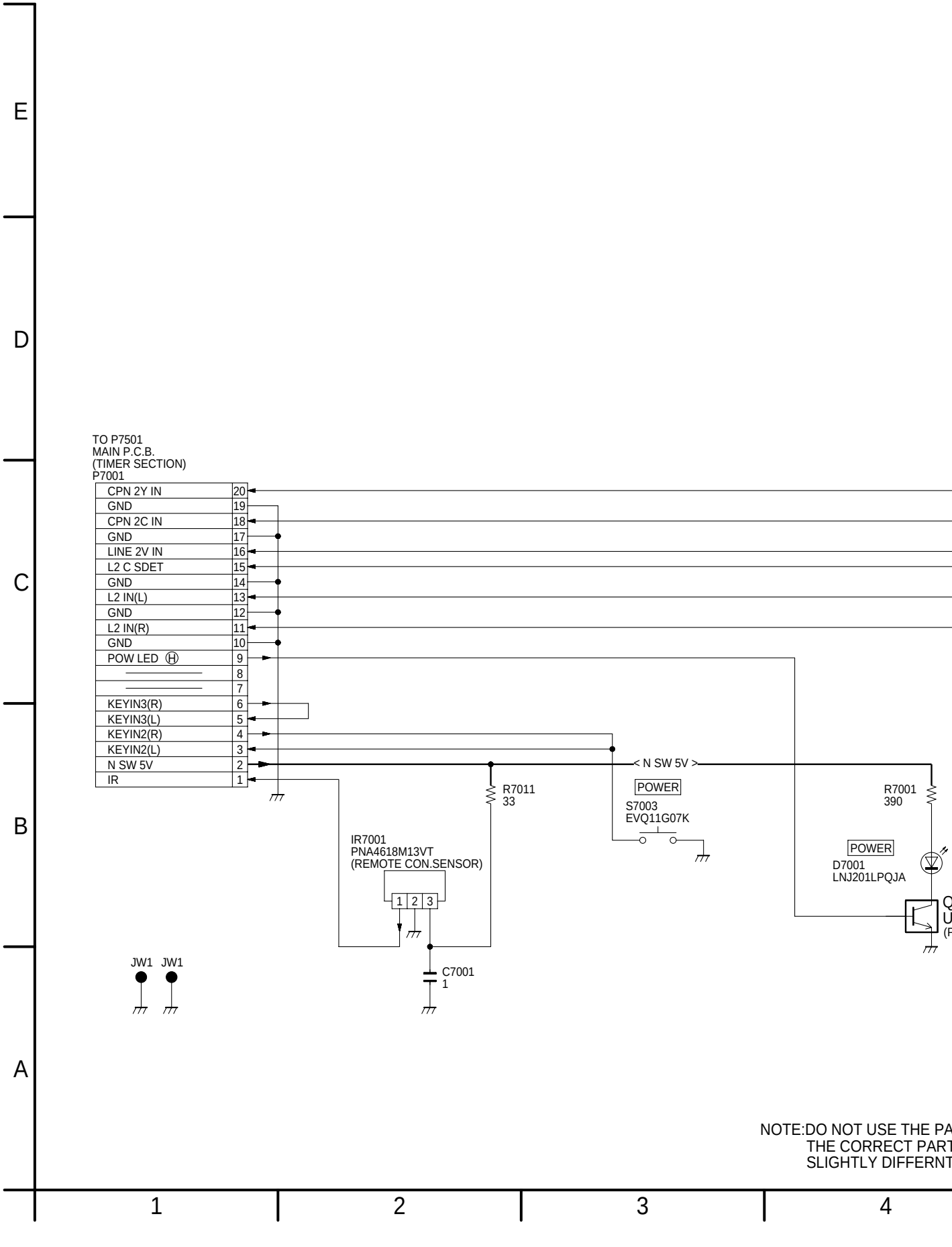
12 13 14 15 16 17

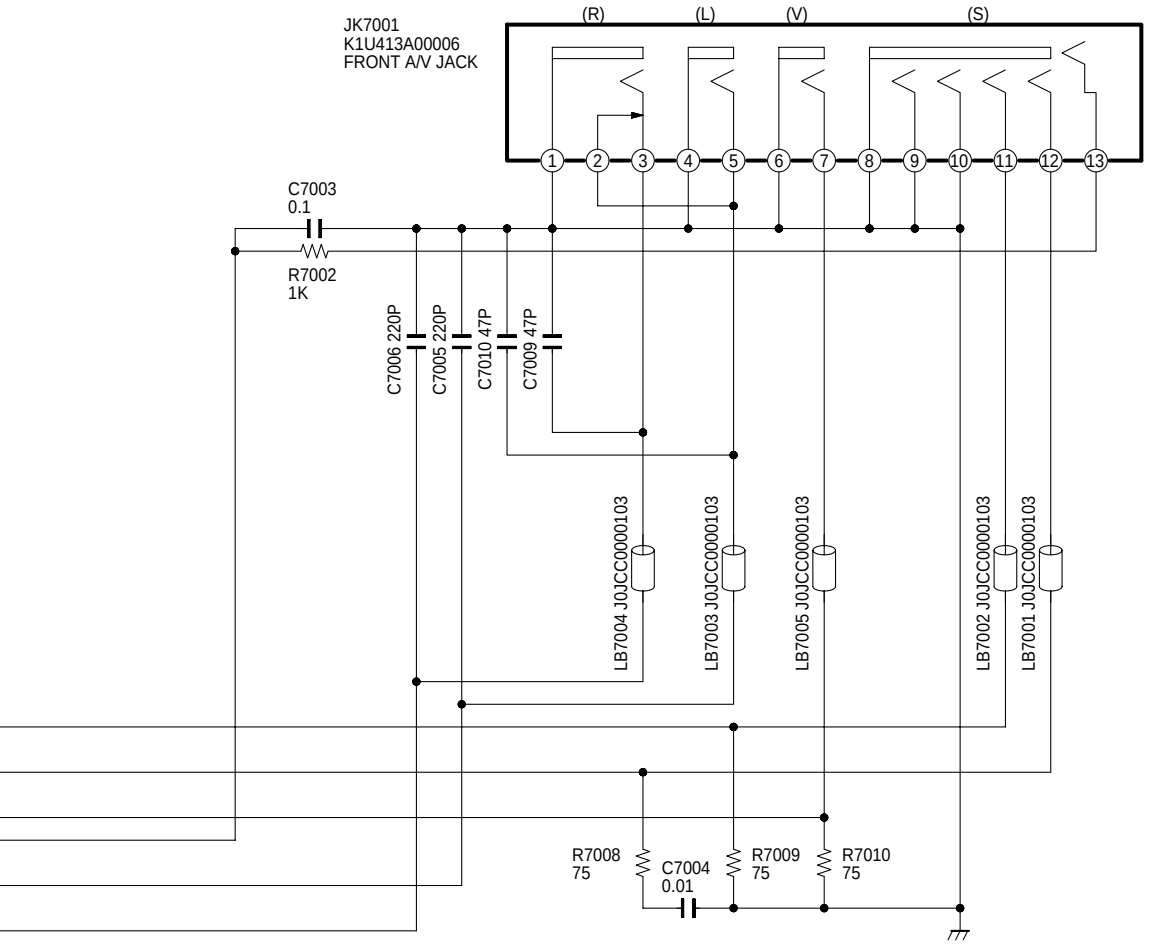


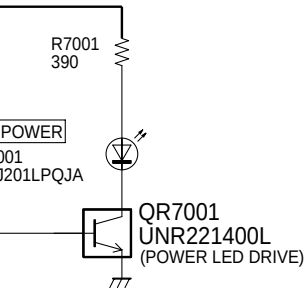
DMR-E100H EB/EG
SD & PC Card Schematic Diagram

18 | 19 | 20 | 21 | 22

14.23. Front (L) Schematic Diagram





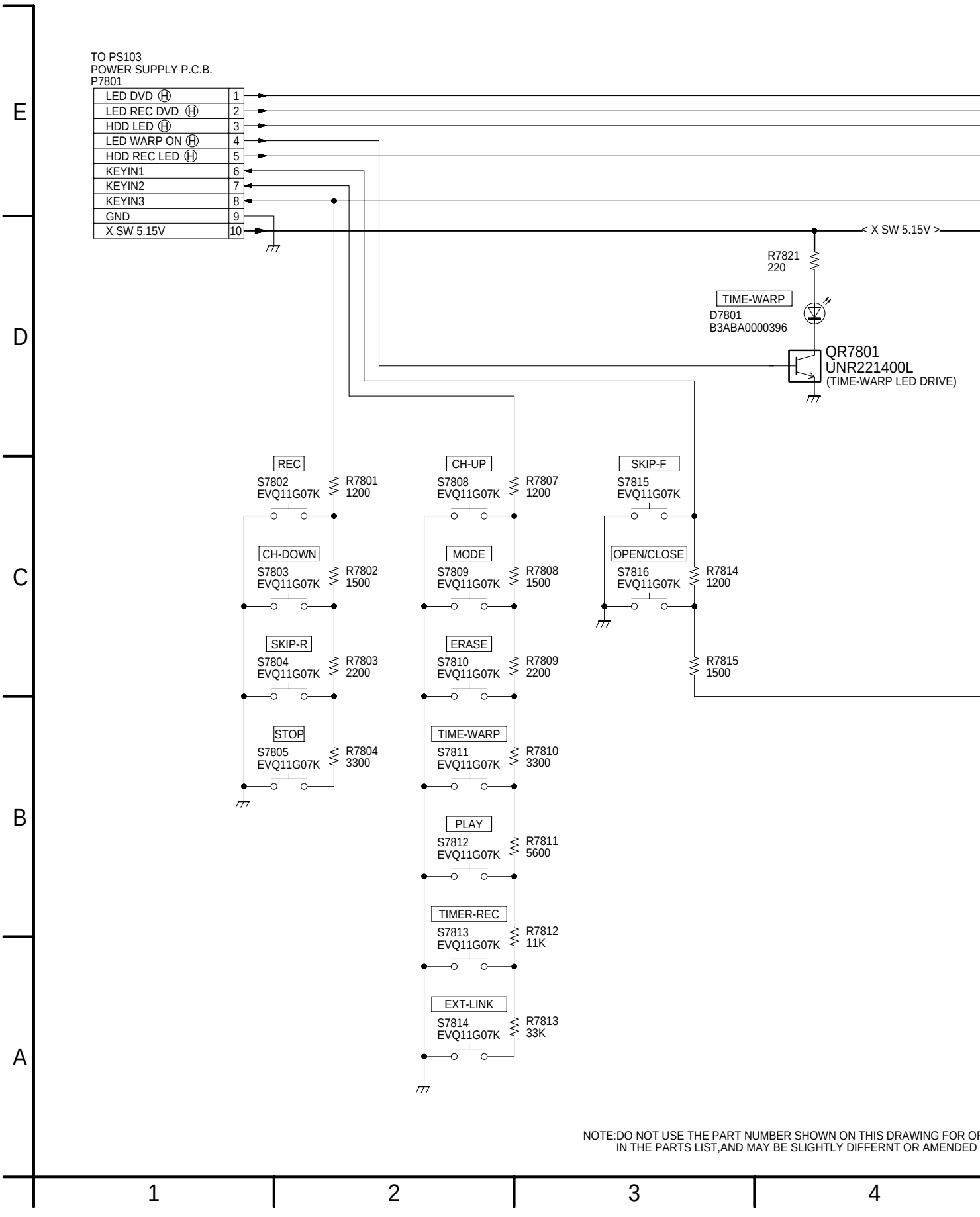


OT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
ORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
TLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

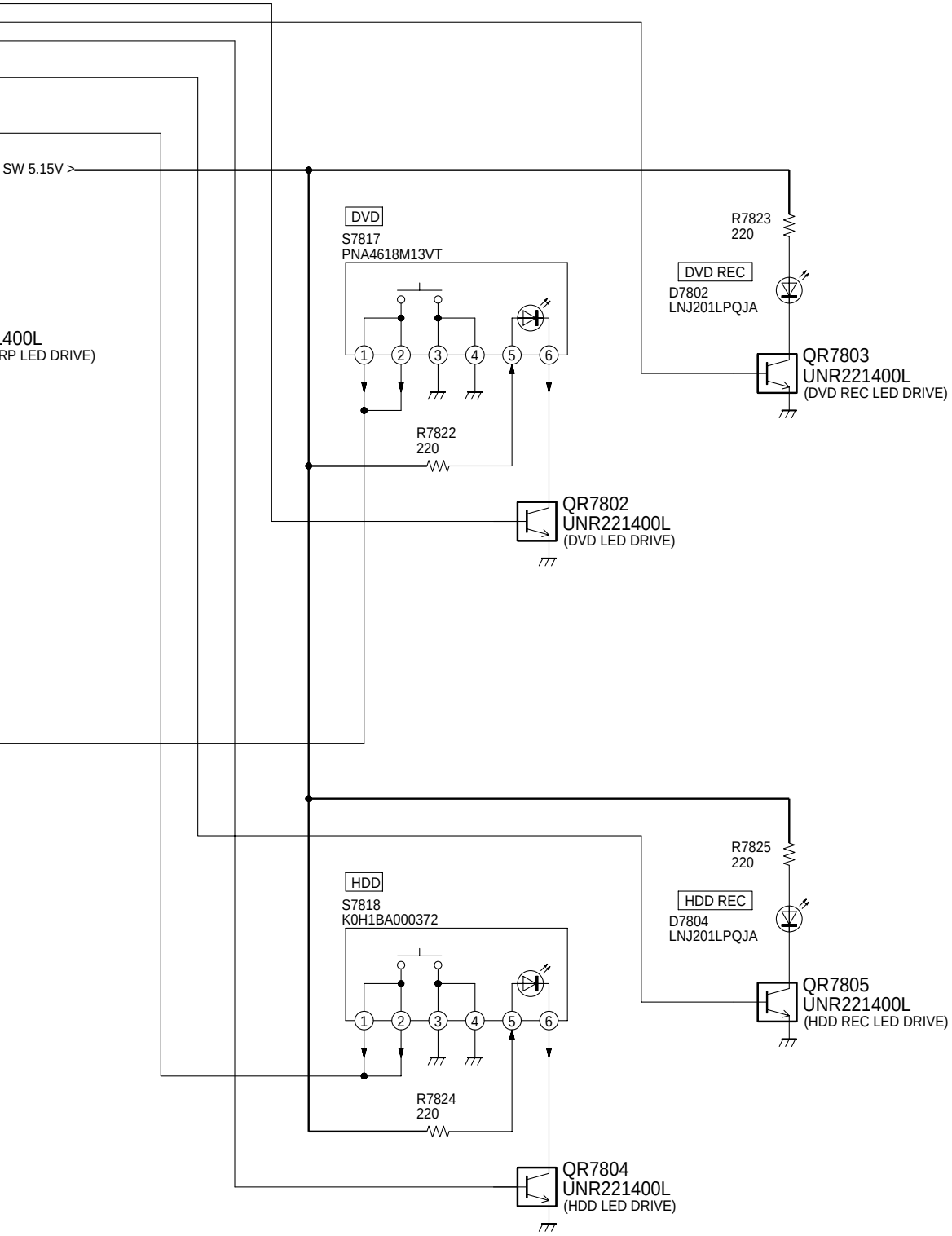
DMR-E100H EB/EG
Front(L) Schematic Diagram

4	5	6	7

14.24. Front (R) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR OR
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED



S DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
RNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Front(R) Schematic Diagram

	5	6	7

Ref No.	PS9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	3.3	3.3	5.0	5.0	0	1.3	0	1.3	0	1.3	0	1.3	0	0.9	0.9	0	0.9	0	1.2
PLAY	0	3.3	3.3	5.0	5.0	0	1.3	0	1.3	0	1.3	0	1.3	0	0.9	0.9	0	0.9	0	1.2
STOP	0	3.3	3.3	5.0	5.0	0	1.3	0	1.3	0	1.3	0	1.3	0	0.9	0.9	0	0.9	0	1.2

Ref No.	PS9001																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.7	0	0	0	0	0	1.7	0	1.8										
PLAY	0	1.7	0	0	0	0	0	1.7	0	1.8										
STOP	0	1.7	0	0	0	0	0	1.7	0	1.8										

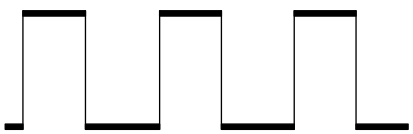
Ref No.	PS9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.3	5.7	1.5	1.8	1.8	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
PLAY	5.0	3.3	5.7	1.5	1.8	1.8	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
STOP	5.0	3.3	5.7	1.5	1.8	1.8	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0

Ref No.	PS9002																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.3	0	0	1.8	1.5	5.7	3.3	5.0										
PLAY	2.5	5.0	2.3	0	0	1.8	1.5	5.7	3.3	5.0										
STOP	2.5	5.0	2.3	0	0	1.8	1.5	5.7	3.3	5.0										

Ref No.	PS9003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.5	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	2.5	0	0	3.3	3.3	4.9	1.8	2.5	0
PLAY	0	4.5	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	2.5	0	0	3.3	3.3	4.9	1.8	2.5	0
STOP	0	4.5	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	2.5	0	0	3.3	3.3	4.9	1.8	2.5	0

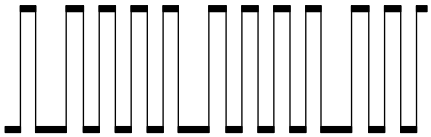
Ref No.	PS9003																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	5.0	5.0	4.7	4.7	5.0	5.0	-	-	-										
PLAY	5.0	5.0	5.0	4.7	4.7	5.0	5.0	-	-	-										
STOP	5.0	5.0	5.0	4.7	4.7	5.0	5.0	-	-	-										

WF No. PP9701-15 (REC/PLAY)



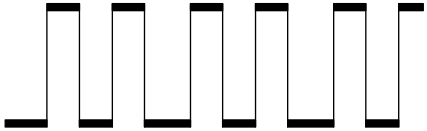
0.7Vp-p(20usec/div)

WF No. PP9701-16 (REC/PLAY)



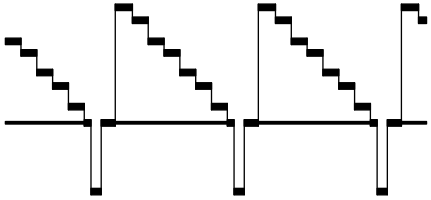
0.7Vp-p(20usec/div)

WF No. PP9701-18 (REC/PLAY)



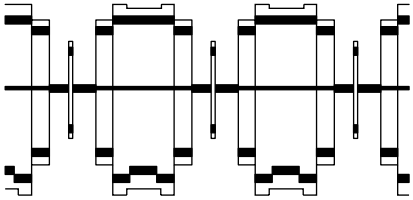
0.7Vp-p(20usec/div)

WF No. PP9701-20 (REC/PLAY)



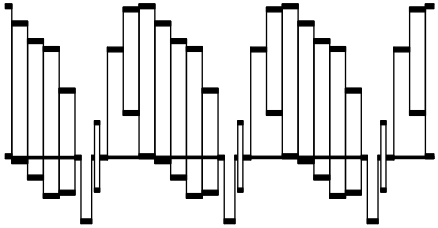
1.0Vp-p(20usec/div)

WF No. PP9701-22 (REC/PLAY)



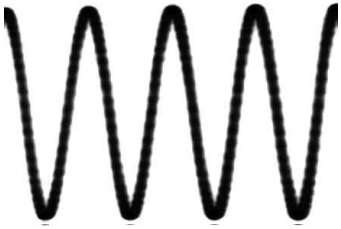
1.0Vp-p(20usec/div)

WF No. PP9701-28 (REC/PLAY)



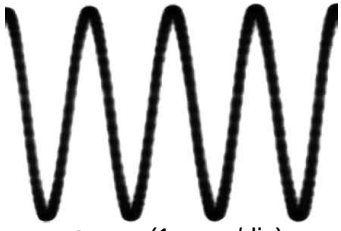
1.0Vp-p(20usec/div)

WF No. PP9702-12 (REC/PLAY)



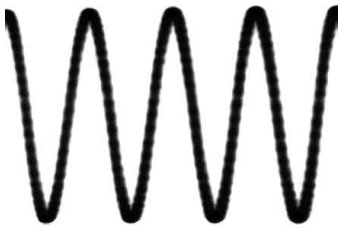
1.8Vp-p(1msec/div)

WF No. PP9702-14 (REC/PLAY)



1.8Vp-p(1msec/div)

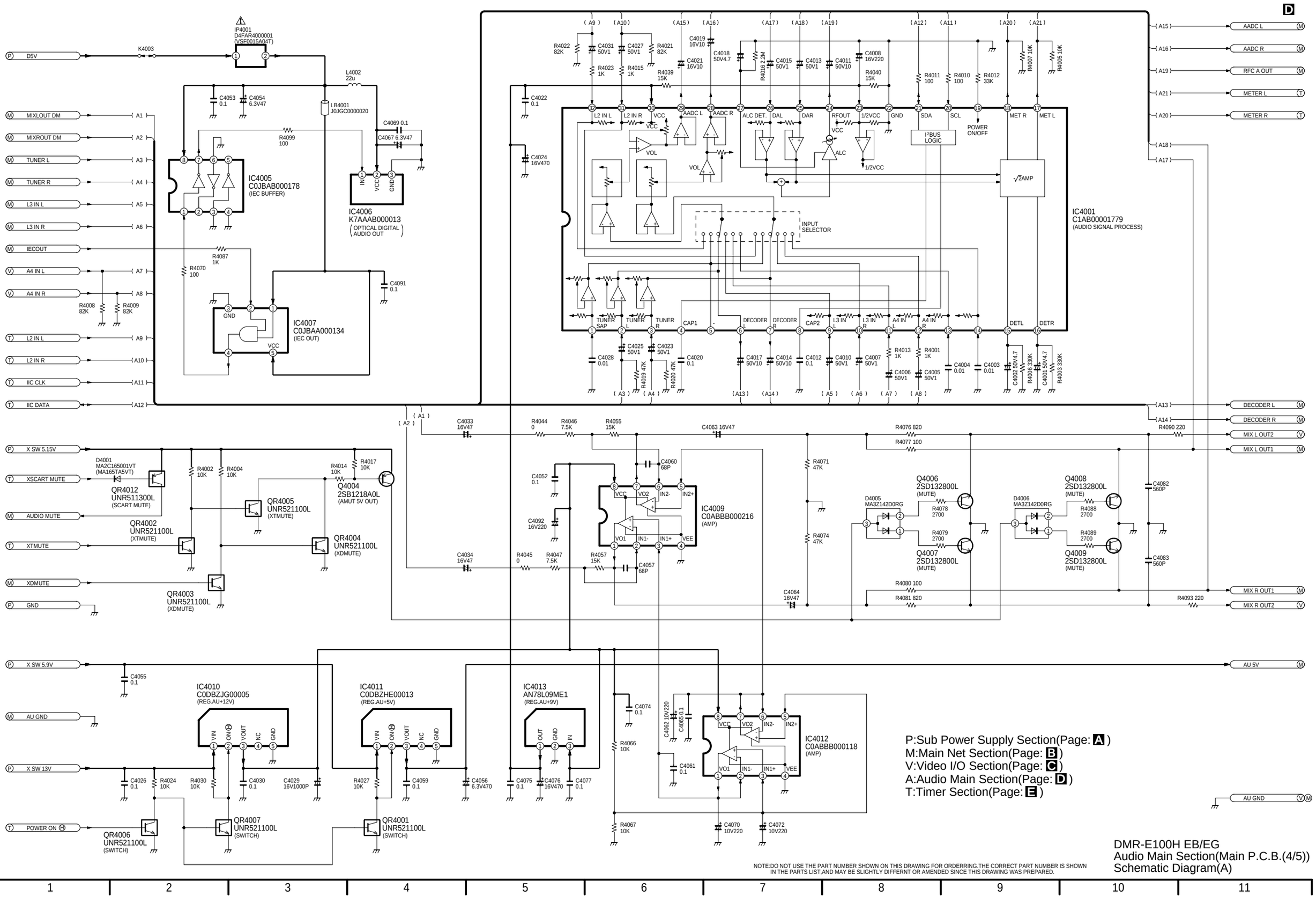
WF No. PP9702-19 (REC/PLAY)



1.8Vp-p(1msec/div)

WF No. PP9702-21 (REC/PLAY)

1.8Vp-p(1msec/div)


IP4001
D4FAR4000001
(VSF0015A04T)
K4003
P D5V
L4002
22u
LB4001
J0JGC0000020
C4053 0.1
C4054 6.3V47
C4069 0.1
C4067 6.3V47
R4099 100
M MIXLOUT DM A1
M MIXROUT DM A2
M TUNER L A3
M TUNER R A4
M L3 IN L A5
M L3 IN R A6
M IECOUT
V A4 IN L A7
V A4 IN R A8
T L2 IN L A9
T L2 IN R A10
T IIC CLK A11
T IIC DATA A12
IC4005
C0JBAB000178
(IEC BUFFER)
IC4006
K7AAAB000013
(OPTICAL DIGITAL AUDIO OUT)
IN VCC GND
R4070 100
R4087 1K
R4008 82K
R4009 82K
C4091 0.1
GND VCC
IC4007
C0JBAA000134
(IEC OUT)
IC4001
C1AB00001779
(AUDIO SIGNAL PROCESS)
L2 IN L
L2 IN R
VCC
AADC L
AADC R
ALC DET.
DAL
DAR
RFOUT
1/2VCC
GND
SDA
SCL
MET R
MET L
POWER ON/OFF
I²BUS LOGIC
√2AMP
VOL
ALC
INPUT SELECTOR
TUNER SAP
TUNER L
TUNER R
CAP1
DECODER L
DECODER R
CAP2
L3 IN L
L3 IN R
A4 IN L
A4 IN R
DETL
DETR
R4022 82K
R4023 1K
C4031 50V1
C4027 50V1
R4021 82K
R4015 1K
C4019 16V10
C4021 16V10
C4018 50V4.7
R4039 15K
R4016 2.2M
C4015 50V1
C4013 50V1
C4011 50V10
C4008 16V220
R4040 15K
R4011 100
R4010 100
R4012 33K
R4007 10K
R4005 10K
C4022 0.1
C4024 16V470
C4028 0.01
C4025 50V1
C4023 50V1
C4020 0.1
R4019 47K
R4020 47K
C4017 50V10
C4014 50V10
C4012 0.1
C4010 50V1
C4007 50V1
R4013 1K
R4001 1K
C4006 50V1
C4005 50V1
C4004 0.01
C4003 0.01
C4002 50V4.7
R4006 330K
C4001 50V4.7
R4003 330K
A15 AADC L M
A16 AADC R M
A19 RFC A OUT M
A21 METER L T
A20 METER R T
A18
A17
A13 DECODER L M
A14 DECODER R M
R4090 220
MIX L OUT2 V
MIX L OUT1 M
C4033 16V47
C4063 16V47
R4044 0
R4046 7.5K
R4055 15K
R4076 820
R4077 100
C4060 68P
C4052 0.1
C4092 16V220
IC4009
C0ABBB000216
(AMP)
VCC VO2 IN2- IN2+
VO1 IN1- IN1+ VEE
C4034 16V47
R4045 0
R4047 7.5K
R4057 15K
C4057 68P
R4071 47K
R4074 47K
Q4006
2SD132800L
(MUTE)
Q4007
2SD132800L
(MUTE)
Q4008
2SD132800L
(MUTE)
Q4009
2SD132800L
(MUTE)
D4005
MA3Z142D0RG
D4006
MA3Z142D0RG
R4078 2700
R4079 2700
R4088 2700
R4089 2700
C4082 560P
C4083 560P
C4064 16V47
R4080 100
R4081 820
R4093 220
MIX R OUT1 M
MIX R OUT2 V
P X SW 5.15V
T XSCART MUTE
M AUDIO MUTE
T XTMUTE
M XDMUTE
P GND
D4001
MA2C165001VT
(MA165TA5VT)
QR4012
UNR511300L
(SCART MUTE)
QR4002
UNR521100L
(XTMUTE)
QR4003
UNR521100L
(XDMUTE)
QR4005
UNR521100L
(XTMUTE)
QR4004
UNR521100L
(XDMUTE)
R4002 10K
R4004 10K
R4014 10K
R4017 10K
Q4004
2SB1218A0L
(AMUT 5V OUT)
P X SW 5.9V
M AU GND
P X SW 13V
T POWER ON H
C4055 0.1
IC4010
C0DBZJG00005
(REG.AU+12V)
VIN ON H VOUT NC GND
IC4011
C0DBZHE00013
(REG.AU+5V)
IC4013
AN78L09ME1
(REG.AU+9V)
OUT GND IN
C4026 0.1
R4024 10K
R4030 10K
C4030 0.1
C4029 16V1000P
R4027 10K
C4059 0.1
C4056 6.3V470
C4075 0.1
C4076 16V470
C4077 0.1
C4074 0.1
R4066 10K
R4067 10K
C4062 10V220
C4065 0.1
C4061 0.1
IC4012
C0ABBB000118
(AMP)
C4070 10V220
C4072 10V220
QR4006
UNR521100L
(SWITCH)
QR4007
UNR521100L
(SWITCH)
QR4001
UNR521100L
(SWITCH)
AU 5V M
AU GND V M
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E100H EB/EG
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)

MAIN P.C.B.

MAIN P.C.B.

SCART P.C.B.

:REC SIGNAL

:PB SIGNAL

AV4
JK3001
REAR JACK

LINE OUT (L)

LINE OUT (R)

MIX L OUT2

MIX R OUT2

D4005 Q4006 MUTE

Q4007 MUTE

D4006 Q4008 MUTE

Q4009 MUTE

QR4002-QR4005
Q4004
MUTE CIRCUIT

XTMUTE
IC7502- 20

FROM TIMER SEC.

XSCART MUTE Ⓛ
IC7502- 57

QR4012
SCART MUTE OUT

MIX L OUT1

MIX R OUT1

AUDIO MUTE

PP7403 | PS3903
14

PP7403 | PS3903
12

PP7403 | PS3903
2

Q3908,
QR3909
SWITCH

D3903 Q3910 MUTE

Q3909 MUTE

XDMUTE

IC4001
(AUDIO SIGNAL PROCESS)

FROM DIGITAL P.C.B.

PS9002 | PP9702
23

PS9002 | PP9702
19

PS9002 | PP9702
21

MIX R OUT DM

MIX L OUT DM

IC4009

IC4009

DAR

DAL

L CH OUT

R CH OUT

A ADC L

A ADC R

PP9702 | PS9002
12

PP9702 | PS9002
14

TO DIGITAL P.C.B.

IC3901
(A/V BUFFER AND SWITCH)

AV4
JK3001
REAR JACK

LINE IN(R)

LINE IN(L)

AUDIO

A4 IN R

A4 IN L

A4 IN R

A4 IN L

L3 IN R

L3 IN L

L3 IN(R)

L3 IN(L)

PP7403 | PS3903
4

PP7403 | PS3903
6

MUTE

R CH OUT

L CH OUT

AUDIO OUT CH2(R)

AUDIO IN CH2(R)

AUDIO OUT CH1(L)

AUDIO IN CH1(L)

AV2
JK3904
DECODER/EXT

MIX L OUT1

L CH IN

MIX R OUT1

R CH IN

AV3
JK7001
FRONT JACK

FRONT LINE (L)

FRONT LINE (R)

AUDIO

P7001 | P7501
13

P7001 | P7501
11

L2 IN(L)

L2 IN(R)

L2 IN L

L2 IN R

DC L CH

DC R CH

METER L

METER R

DC L CH
IC7502- 101

DC R CH
IC7502- 102

TO TIMER SEC.

E100H EB

DU7402
TUNER

QR7406,7407
MUTE

RFC A MUTE Ⓗ
IC7502- 52

FROM TIMER SEC.

AUDIO IN

RFC A OUT

RF OUT

IC7301

AUDIO OUT

PK7701 | PK7301
3

MSD

PK7302 | PK7702
4

PK7302 | PK7702
6

TUNER R

TUNER L

TUNER R

TUNER L

DECODER R

DECODER L

DECODER R

DECODER L

PP7403 | PS3903
8

PP7403 | PS3903
10

DECODER R

DECODER L

R CH IN

L CH IN

AUDIO OUT CH2(R)

AUDIO IN CH2(R)

AUDIO OUT CH1(L)

AUDIO IN CH1(L)

AV1
JK3905
TV

FROM DIGITAL P.C.B.

PS9002 | PP9702
17

IEC OUT

D+5V

IC4007

IC4005

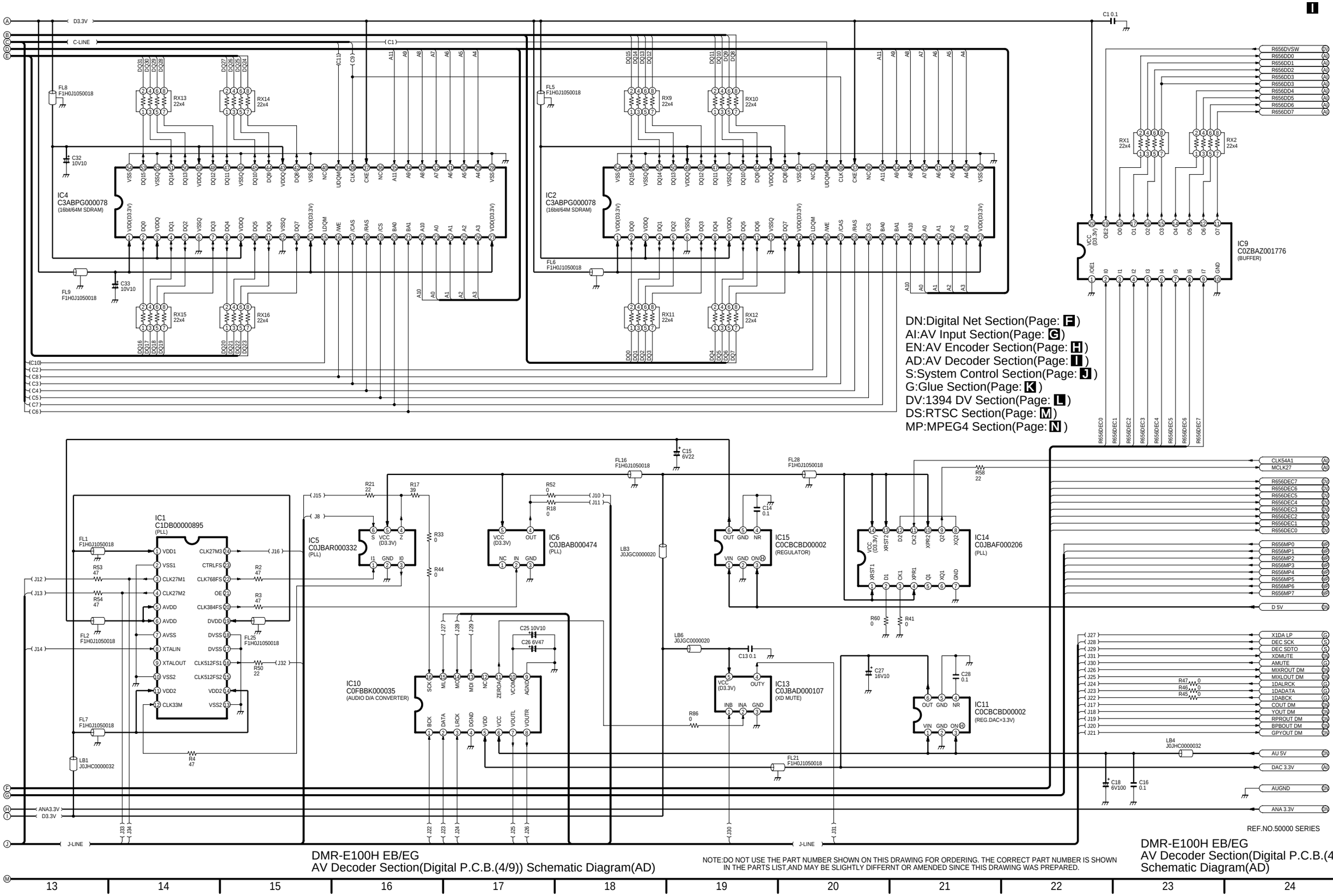
IC4006
OPTICAL
(DIGITAL AUDIO OUT)

DMR-E100H EB/EG
Analog Audio Block Diagram

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

IC3
MN677551NA
(AVDEC)

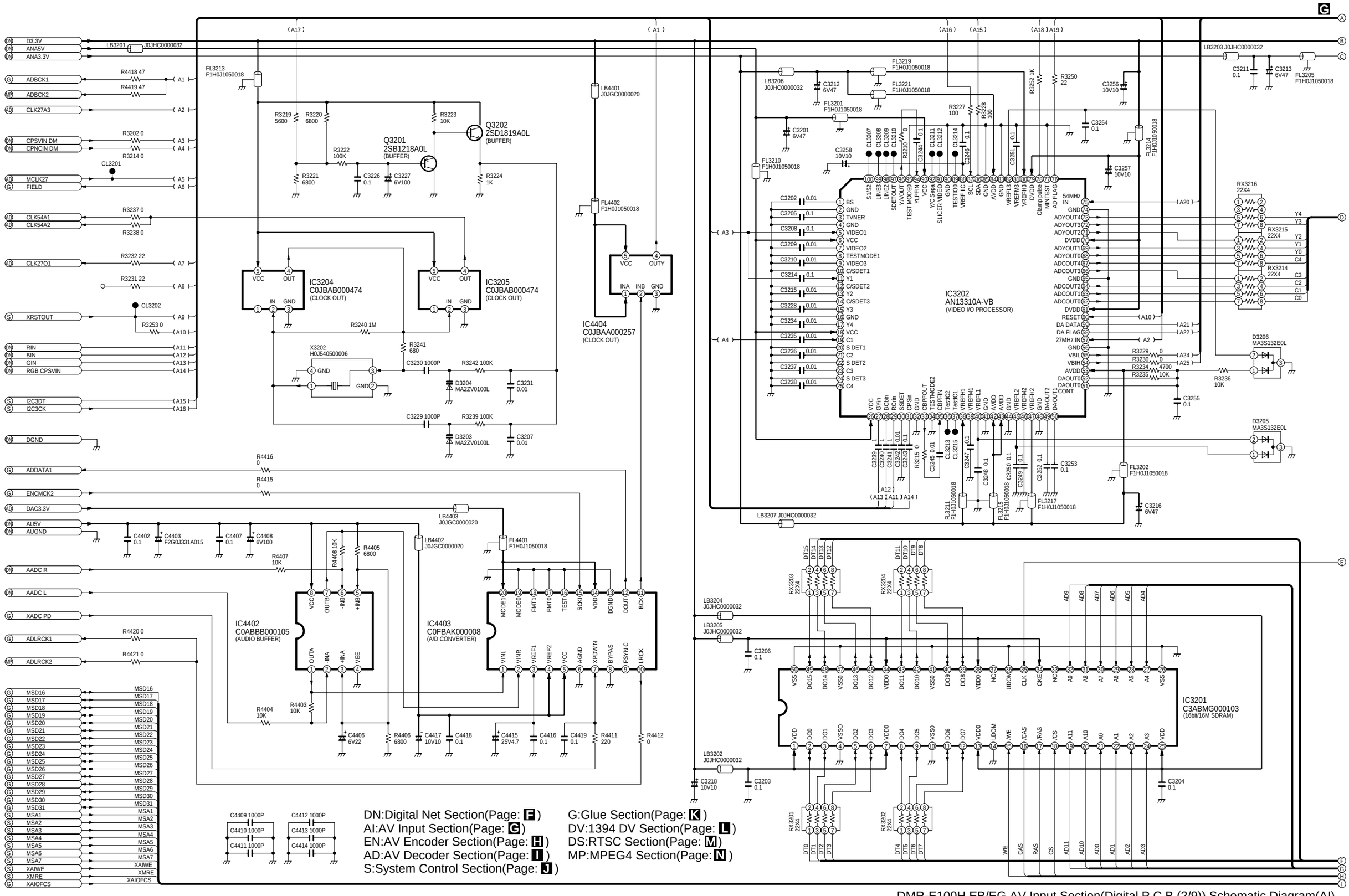
DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)



DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9))
Schematic Diagram(AD)



DMR-E100H EB/EG AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

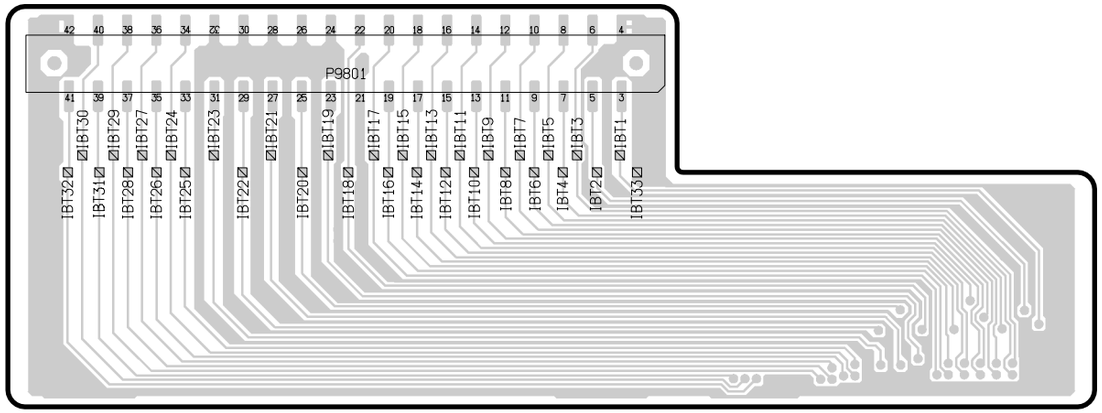
IC3203
MN673747
(VAD CON)

IC3206
C0JBAR000332
(27MHz CLOCK OUT)

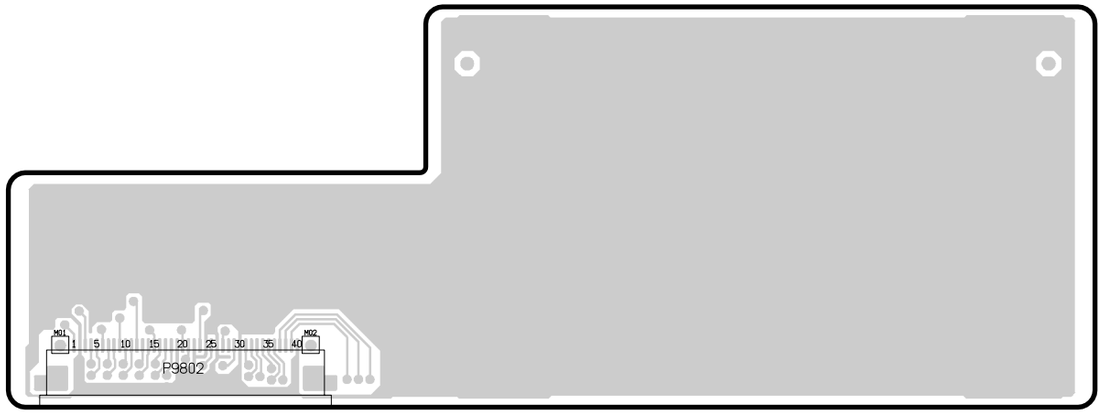
DMR-E100H EB/EG AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

DMR-E100H EB/EG
AV Input Section(Digital P.C.B.(2/9))
Schematic Diagram(AI)

DRIVE ATAPI P.C.B.

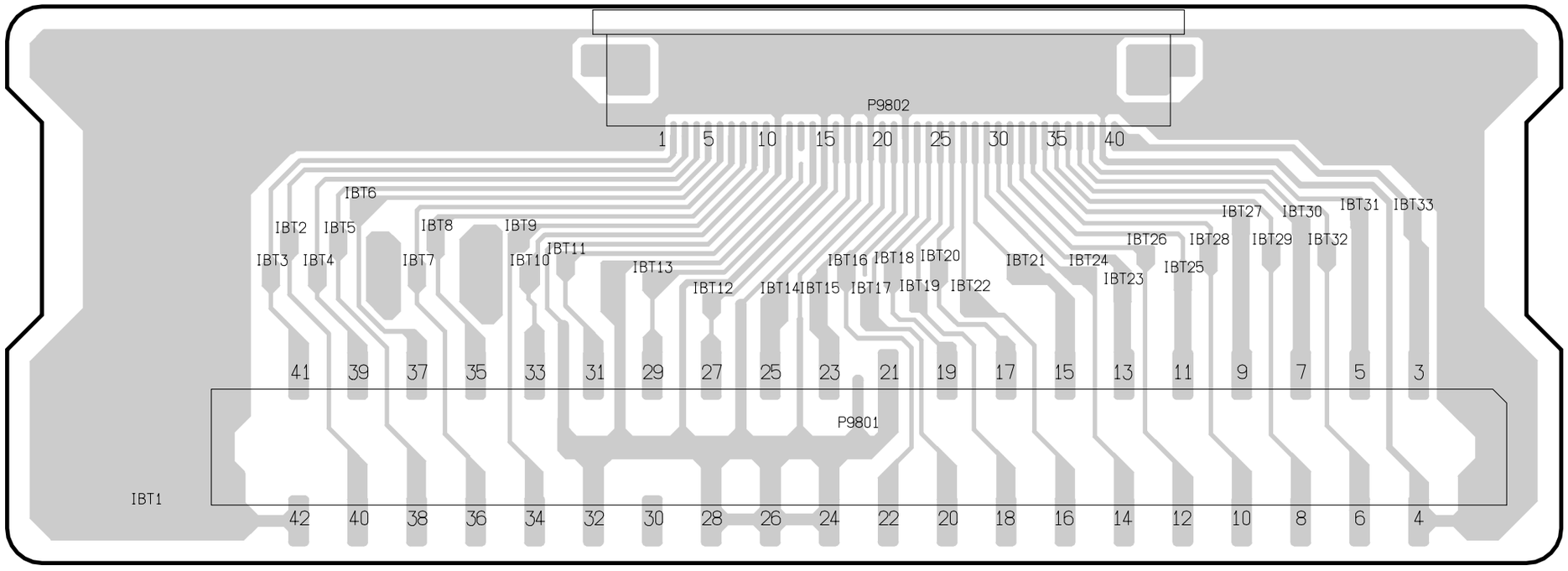


(COMPONENT SIDE)



(FOIL SIDE)

ATAPI P.C.B.



DMR-E100H EB/EG
DRIVE ATAPI P.C.B.(REP3604A)
ATAPI P.C.B. (REP3542A)

TO HDD DRIVE
P9801

———	1
———	2
RESET-	3
GND	4
DD7	5
DD8	6
DD6	7
DD9	8
DD5	9
DD10	10
DD4	11
DD11	12
DD3	13
DD12	14
DD2	15
DD13	16
DD1	17
DD14	18
DD0	19
DD15	20
GND	21
———	22
DMARQ	23
GND	24
DIOW-	25
GND	26
DIOR-	27
GND	28
IORDY	29
GND	30
DMACK-	31
GND	32
INTRQ	33
———	34
DA1	35
———	36
DA0	37
DA2	38
DA0-	39
———	40
DASP	41
GND	42
———	43
———	44

TO FP3502
DIGITAL P.C.B.
(RTSC SECTION)
P9802

1	RESET-
2	GND
3	DD7
4	DD8
5	DD6
6	DD9
7	DD5
8	DD10
9	DD4
10	DD11
11	DD3
12	DD12
13	DD2
14	DD13
15	DD1
16	DD14
17	DD0
18	DD15
19	GND
20	———
21	DMARQ
22	GND
23	DIOW-
24	GND
25	DIOR-
26	GND
27	IORDY
28	———
29	DMACK-
30	GND
31	INTRQ
32	———
33	DA1
34	———
35	DA0
36	DA2
37	CS0-
38	———
39	DASP
40	GND

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
ATAPI Schematic Diagram

D C B A

1 2 3 4 5 6

MAIN P.C.B.

MAIN P.C.B.

SCART P.C.B.

:REC SIGNAL

:PB SIGNAL

FROM DIGITAL P.C.B.

PS9001 PP9701 20 — Y OUT DM — FL3004 — Q3008 AMP

PS9001 PP9701 22 — C OUT DM — FL3003 — Q3007 AMP

IC3003 (VIDEO BUFFER)

Y — 6M LPF — 6dB — 750 hm — Y OUT

C — 1.5-6M BPF — MIX — 6dB — 750 hm — C OUT

6dB — 750 hm — V OUT

CPN Y OUT

CPN C OUT

CPS V OUT

AV4 JK3001 REAR JACK

S-VIDEO CPN OUT

V OUT

E100H EB

DU7402 TUNER PACK

VIDEO IN

RFC V OUT

FROM TIMER SEC. — YC (H) IC7502- 51

AV2 THROUGH (L) IC7502- 50 — FROM TIMER SEC.

QR7501

IC3002 (SELECTOR SW.)

C IN

R IN

IC3004 (SELECTOR SW.)

R/C OUT

B OUT

G/Y OUT

R OUT

B OUT

G OUT

IC3902 (RGB BUFFER)

PP7401 PS3901 20 — R/C OUT — 6dB — 750 hm

PP7401 PS3901 16 — B OUT — 6dB — 750 hm

PP7401 PS3901 18 — G OUT — 6dB — 750 hm

RED/C OUT

BLUE OUT

GREEN OUT

VIDEO/Y OUT

VIDEO IN

AV1 JK3905 TV

CPS V OUT

CPN Y OUT

PP7401 PS3901 12

PP7401 PS3901 10

PS9001 PP9701 18 — RPROUT DM — FL3006 — Q3010 AMP — RPROUT DM

PS9001 PP9701 16 — BPBOUT DM — FL3007 — Q3011 AMP — BPBOUT DM

PS9001 PP9701 15 — GPYOUT DM — FL3005 — Q3009 AMP — GPYOUT DM

R/C IN

G IN

B IN

PP7402 PS3902 3

PP7402 PS3902 5

PP7402 PS3902 7

RED/C IN

GREEN IN

BLUE IN

VIDEO OUT

VIDEO/Y IN

AV2 JK3904 DECODER/ EXT

Q7404 AMP — PP9701 PS9001 9

Q7405 AMP — PP9701 PS9001 11

Q7406 AMP — PP9701 PS9001 13

TO DIGITAL P.C.B..

AV3 JK7001 FRONT JACK

S-VIDEO IN

VIDEO IN

IC3001 (VIDEO PROCESS)

P7001 P7501 20 — CPN 2Y IN — Y3 IN

P7001 P7501 18 — CPN 2C IN — C3 IN

P7001 P7501 16 — CPS 2V IN — VIDEO 3 IN

C1 IN — RGB C

IC3901 (BUFFER AND SWITCH)

VIDEO OUT(AV1)

VIDEO IN(AV1)

VIDEO OUT(AV2)

CPN Y

CPS V

Q3901 AMP — VIDEO IN(AV2)

TO DIGITAL P.C.B.

PS9001 PP9701 28 — V YIN DM — Q3012 AMP — YGCAOUT

PS9001 PP9701 30 — CPN CIN DM — Q3013 AMP — CGCAOUT

AV4 JK3001 REAR JACK

S-VIDEO IN

VIDEO IN

Y4 IN

C4 IN

VIDEO 4 IN

Y1 IN — Q3014 AMP

VIDEO1 IN — Q3005 AMP

SCART VIN

PP7401 PS3901 8

PP7401 PS3901 6

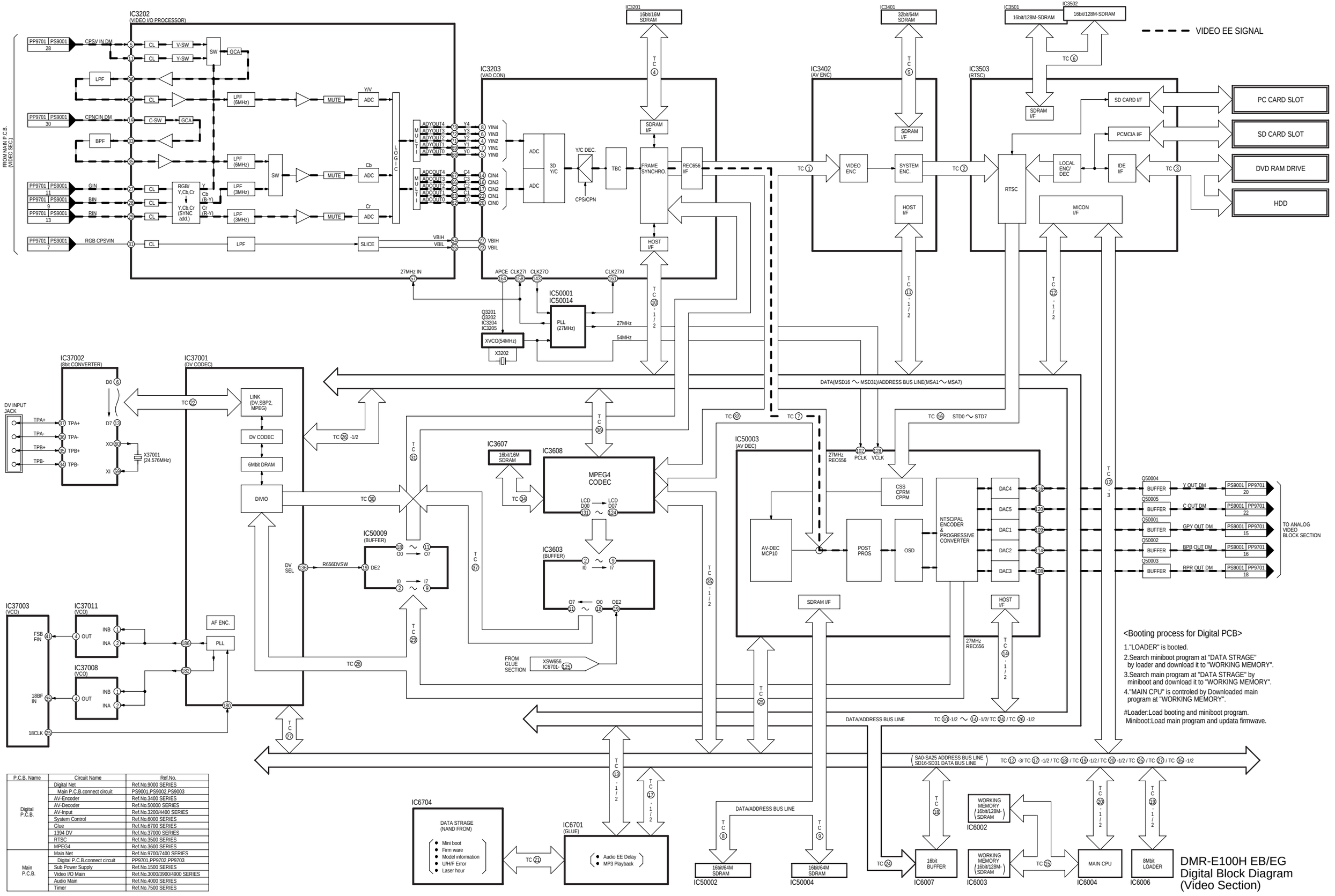
SCART V OUT

TUNER VIDEO

SLICER VIDEO — SLICER VIDEO — Q7505,7507 SYNC OUT — SYNC IN IC7502- 109 — SVREF IC7502- 110 — TO TIMER SEC.

DU7402 VIF PACK — VIDEO OUT — TUNER VIDEO — Q7402 AMP

DMR-E100H EB/EG
Analog Video Block Diagram



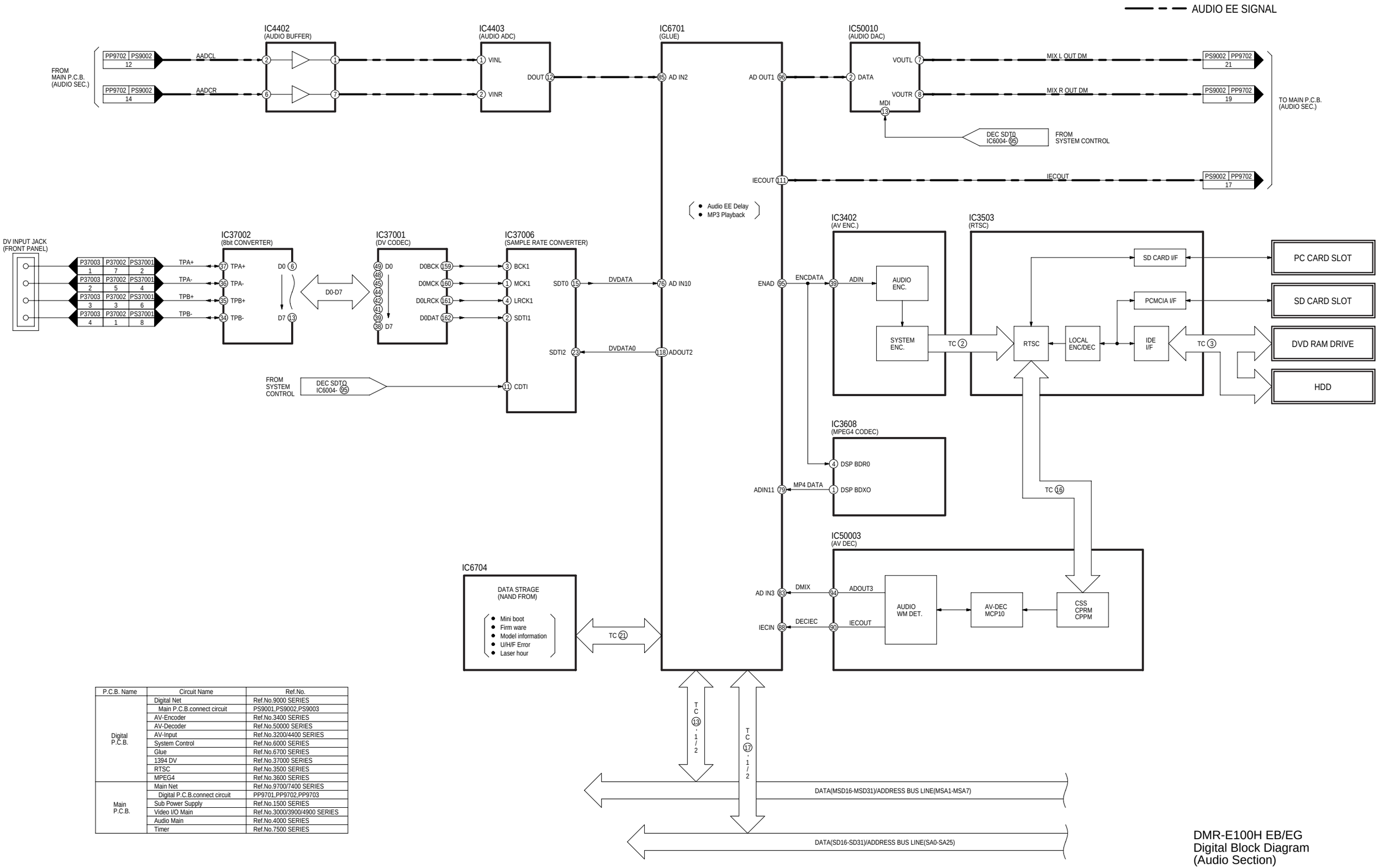
<Booting process for Digital PCB>

1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E100H EB/EG Digital Block Diagram (Video Section)



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E100H EB/EG
Digital Block Diagram
(Audio Section)

TO RAM DRIVE
P9801

———	1	
———	2	
RESET-	3	
GND	4	
DD7	5	
DD8	6	
DD6	7	
DD9	8	
DD5	9	
DD10	10	
DD4	11	
DD11	12	
DD3	13	
DD12	14	
DD2	15	
DD13	16	
DD1	17	
DD14	18	
DD0	19	
DD15	20	
GND	21	
———	22	
DMARQ	23	
GND	24	
DIOW-	25	
GND	26	
DIOR-	27	
GND	28	
IORDY	29	
———	30	
DMACK-	31	
GND	32	
INTRQ	33	
———	34	
DA1	35	
———	36	
DA0	37	
DA2	38	
DA0-	39	
DA1-	40	
———	41	
GND	42	
———	43	
———	44	

TO FP3501
DIGITAL P.C.B.
(RTSC SECTION)
P9802

40	RESET-	
39	GND	
38	DD7	
37	DD8	
36	DD6	
35	DD9	
34	DD5	
33	DD10	
32	DD4	
31	DD11	
30	DD3	
29	DD12	
28	DD2	
27	DD13	
26	DD1	
25	DD14	
24	DD0	
23	DD15	
22	GND	
21	———	
20	DMARQ	
19	GND	
18	DIOW-	
17	GND	
16	DIOR-	
15	GND	
14	IORDY	
13	———	
12	DMACK-	
11	GND	
10	INTRQ	
9	———	
8	DA1	
7	———	
6	DA0	
5	DA2	
4	CS0-	
3	CS1-	
2	———	
1	GND	

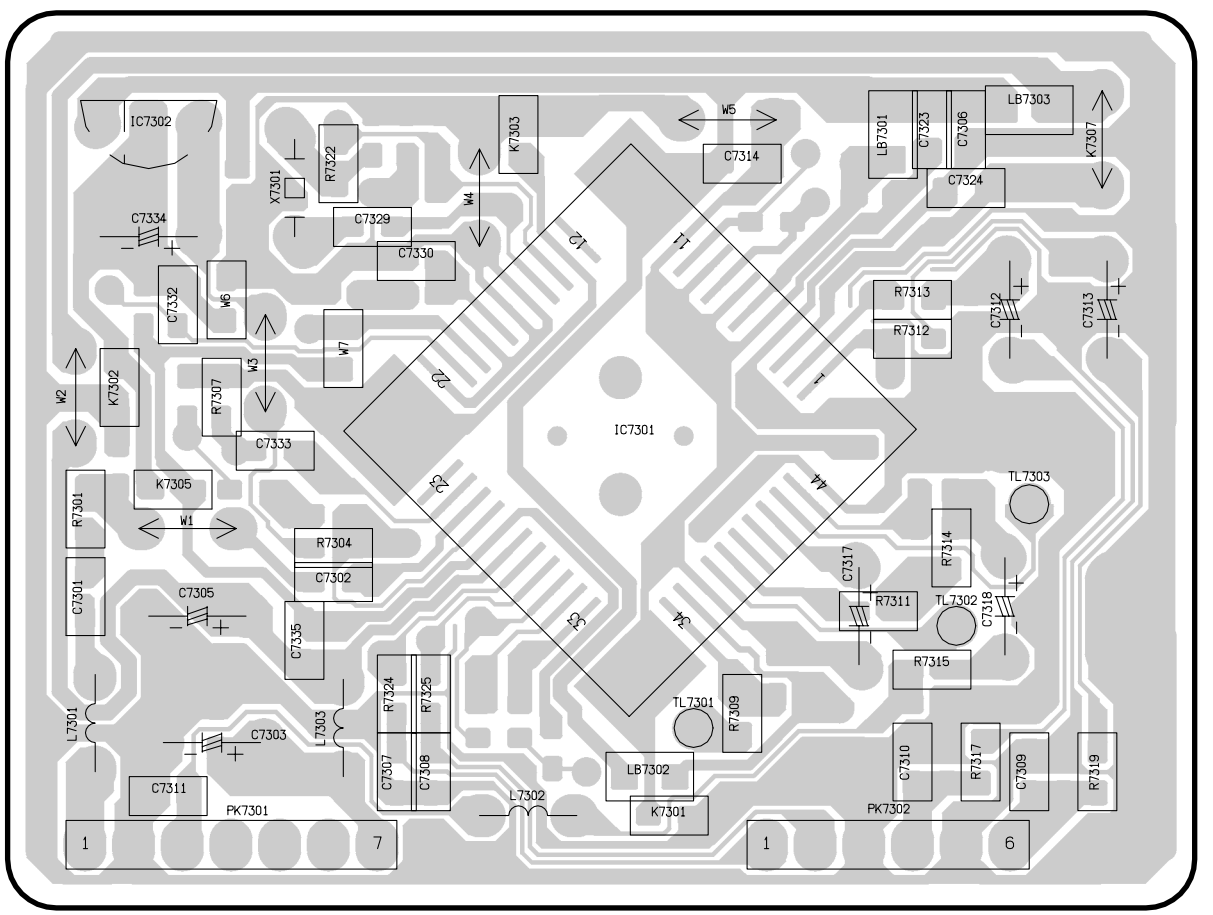
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
DRIVE ATAPI Schematic Diagram

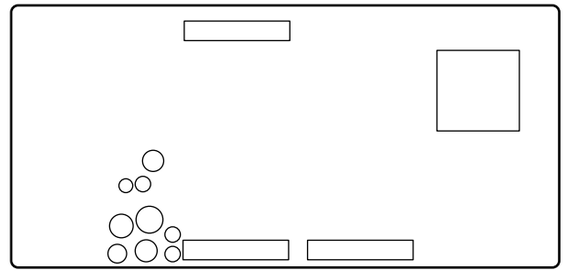
D C B A

1 2 3 4 5 6

Nicam/Decoder P.C.B.

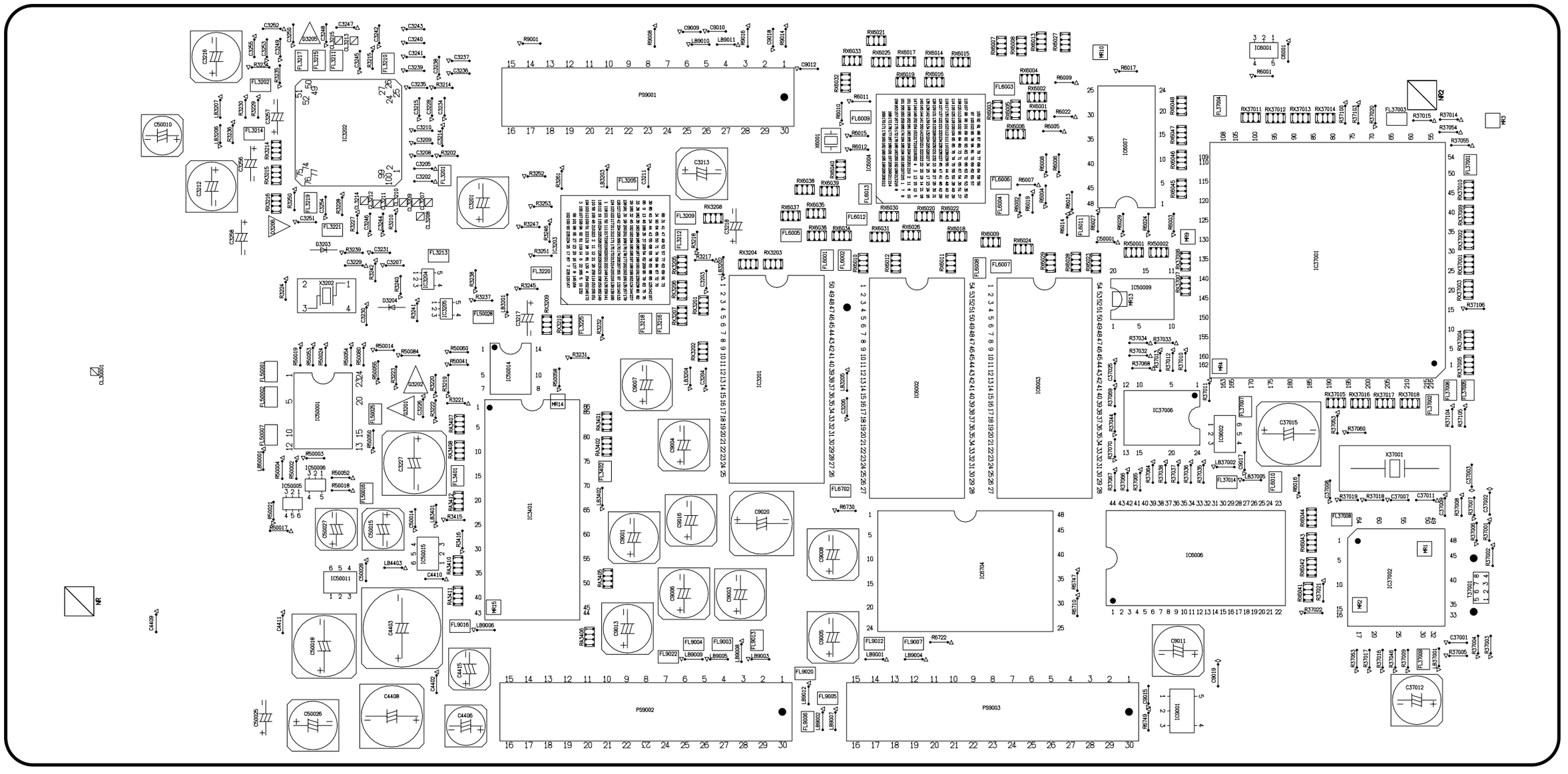


OVER VIEW



*IC6704 is not supplied in the form of an individual part.
When replacing, be sure to replace the Digital P.C.B.
and not IC6704 singly.

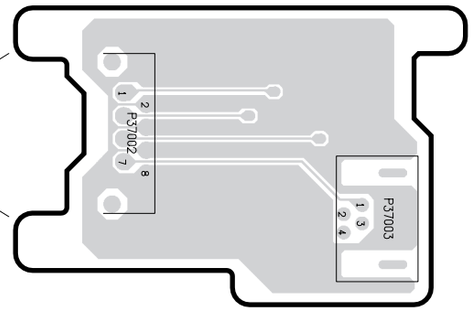
DIGITAL P.C.B. (1/2)



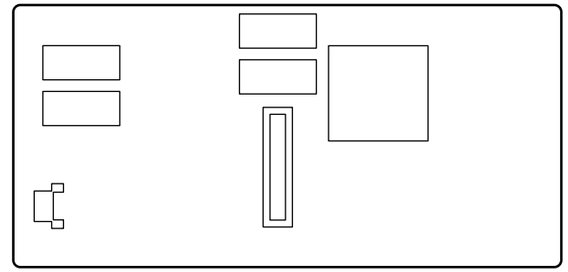
(COMPONENT SIDE)

DMR-E100H EB/EG
DIGITAL P.C.B. (1/2)
(E100HEG:REP3584C,E100HEB:REP3584CD)

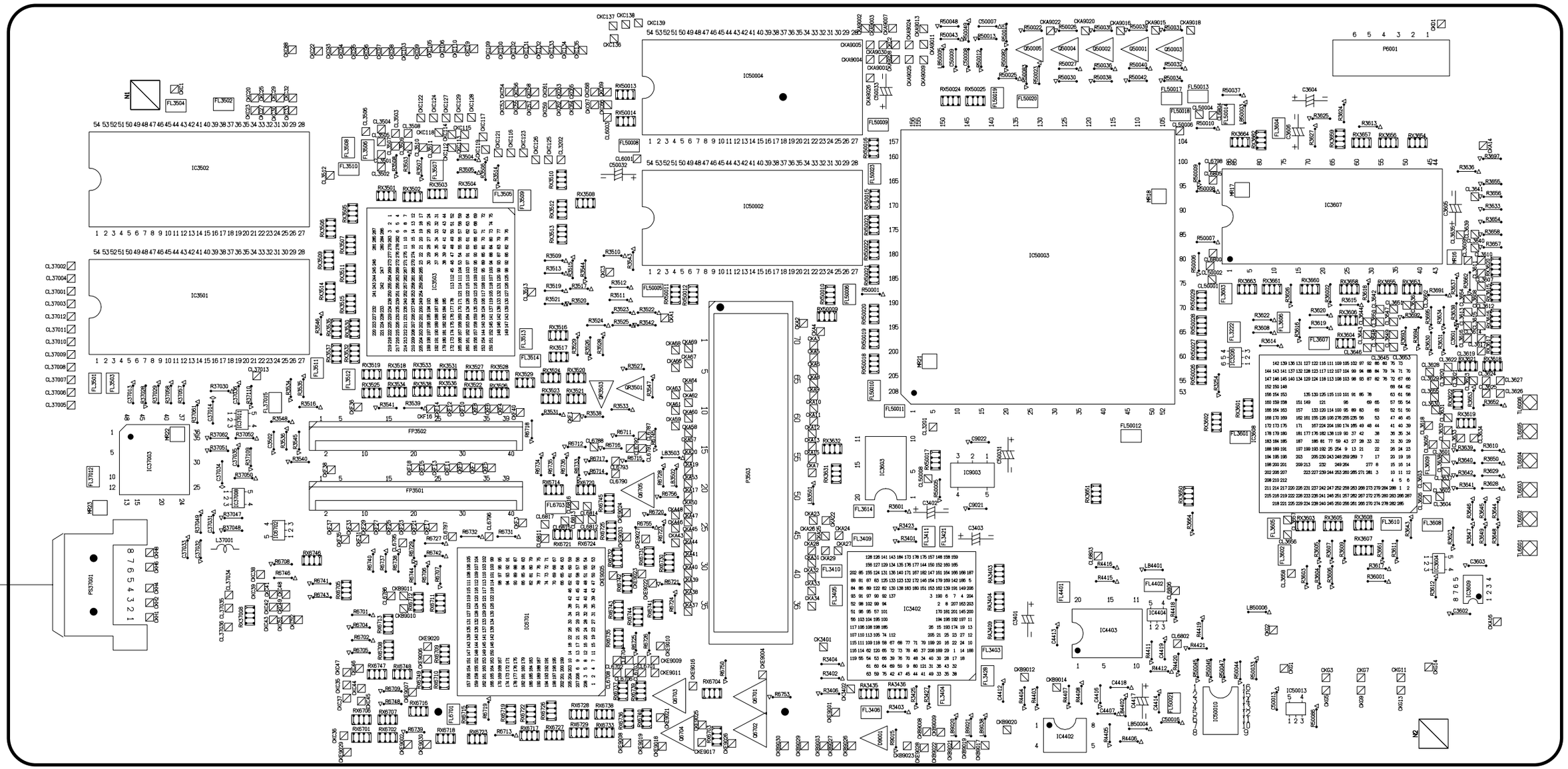
DV JACK P.C.B.



OVER VIEW



DIGITAL P.C.B. (2/2)



(FOIL SIDE)

DMR-E100H EB/EG
DV JACK P.C.B. (REP3540AB)
DIGITAL P.C.B. (2/2)
(E100HEG:REP3584C,E100HEB:REP3584CD)

DIGITAL P.C.B.

Integrated Circuit		
IC3201	C-5	C
IC3202	D-3	C
IC3203	D-4	C
IC3204	C-3	C
IC3205	C-3	C
IC3206	C-7	F
IC3401	B-4	C
IC3402	B-6	F
IC3501	C-2	F
IC3502	D-2	F
IC3503	C-3	F
IC3603	B-6	F
IC3604	B-9	F
IC3607	D-8	F
IC3608	C-8	F
IC3609	B-9	F
IC4402	A-6	F
IC4403	B-7	F
IC4404	B-7	F
IC6001	E-8	C
IC6002	C-6	C
IC6003	C-6	C
IC6004	D-6	C
IC6006	B-7	C
IC6007	D-7	C
IC6701	B-4	F
IC6702	B-2	F
IC6704	B-6	C
IC9001	A-7	C
IC9002	C-7	C
IC9003	B-6	F
IC37001	D-8	C
IC37002	B-8	C
IC37003	B-2	F
IC37006	C-7	C
IC37008	B-2	F
IC37011	C-2	F
IC50001	C-3	C
IC50002	D-5	F
IC50003	D-6	F
IC50004	D-5	F
IC50005	B-2	C
IC50006	B-2	C
IC50009	C-7	C
IC50010	A-7	F
IC50011	B-3	C
IC50013	A-8	F
IC50014	C-4	C
IC50015	B-3	C
Transistor		
Q3201	C-3	C
Q3202	C-3	C
Q6701	A-5	F
Q6702	A-5	F
Q6703	A-4	F
Q6704	A-4	F
Q6705	B-4	F
Q50001	E-7	F
Q50002	E-7	F
Q50003	E-7	F
Q50004	E-6	F
Q50005	E-6	F
Transistor-resistor		
QR3501	C-4	F
QR3503	C-4	F
Test Point		
CK3401	A-5	F
CK3402	A-5	F
CKA1	C-4	F
CKA2	C-5	F
CKA3	C-5	F
CKA4	C-5	F
CKA5	C-5	F
CKA6	C-5	F
CKA7	B-5	F
CKA8	C-5	F
CKA9	C-5	F
CKA10	C-5	F
CKA11	C-5	F
CKA12	C-5	F
CKA13	C-5	F
CKA14	D-9	F
CKA15	B-5	F
CKA16	B-9	F
CKA17	B-4	F
CKA19	B-4	F
CKA20	B-4	F
CKA22	B-5	F
CKA23	B-5	F

CKA24	B-5	F
CKA25	B-5	F
CKA26	B-5	F
CKA27	B-5	F
CKA28	B-5	F
CKA29	B-5	F
CKA31	B-5	F
CKA32	B-5	F
CKA33	B-5	F
CKA34	B-5	F
CKA37	B-4	F
CKA38	B-4	F
CKA39	B-4	F
CKA40	B-4	F
CKA41	B-4	F
CKA43	B-4	F
CKA44	B-4	F
CKA45	B-4	F
CKA46	B-4	F
CKA47	B-4	F
CKA48	B-4	F
CKA50	B-4	F
CKA53	B-4	F
CKA57	C-4	F
CKA58	C-4	F
CKA59	C-4	F
CKA60	C-4	F
CKA61	C-4	F
CKA62	C-4	F
CKA63	C-4	F
CKA64	C-4	F
CKA66	C-4	F
CKA67	C-4	F
CKA68	C-4	F
CKA69	C-4	F
CKA9001	E-6	F
CKA9002	E-5	F
CKA9003	E-5	F
CKA9004	E-5	F
CKA9005	E-5	F
CKA9007	E-6	F
CKA9009	E-6	F
CKA9011	E-6	F
CKA9013	E-6	F
CKA9015	E-7	F
CKA9016	E-7	F
CKA9018	E-7	F
CKA9020	E-7	F
CKA9022	E-6	F
CKA9024	E-6	F
CKA9025	E-6	F
CKA9026	E-5	F
CKA9028	E-6	F
CKA9030	E-6	F
CKB9003	A-5	F
CKB9008	A-6	F
CKB9009	A-6	F
CKB9010	B-3	F
CKB9011	B-3	F
CKB9012	A-6	F
CKB9014	A-6	F
CKB9017	A-6	F
CKB9019	A-6	F
CKB9020	A-6	F
CKB9021	A-6	F
CKB9022	A-6	F
CKB9023	A-6	F
CKB9026	A-5	F
CKB9027	A-5	F
CKB9029	A-5	F
CKB9030	A-5	F
CKC1	D-2	F
CKC2	E-6	F
CKC3	C-4	F
CKC19	E-3	F
CKC20	D-2	F
CKC22	E-2	F
CKC23	D-2	F
CKC25	D-2	F
CKC27	D-2	F
CKC29	D-2	F
CKC30	D-2	F
CKC32	D-2	F
CKC33	D-2	F
CKC35	A-3	F
CKC36	A-3	F
CKC37	A-3	F
CKC38	B-2	F
CKC39	B-2	F
CKC41	B-2	F

CKC42	B-2	F
CKC43	B-2	F
CKC44	A-3	F
CKC45	A-3	F
CKC46	A-3	F
CKC47	A-3	F
CKC48	B-2	F
CKC49	B-2	F
CKC51	B-2	F
CKC52	B-2	F
CKC53	D-3	F
CKC54	D-3	F
CKC55	D-4	F
CKC56	D-4	F
CKC57	D-4	F
CKC58	D-4	F
CKC59	D-4	F
CKC61	D-4	F
CKC62	D-4	F
CKC63	D-4	F
CKC64	D-4	F
CKC65	D-4	F
CKC66	D-4	F
CKC67	D-4	F
CKC68	D-4	F
CKC69	D-4	F
CKC88	E-2	F
CKC93	E-3	F
CKC94	E-3	F
CKC95	E-3	F
CKC96	E-3	F
CKC97	E-3	F
CKC98	E-3	F
CKC99	E-3	F
CKC100	E-3	F
CKC102	E-4	F
CKC103	E-3	F
CKC105	E-3	F
CKC106	E-3	F
CKC109	E-3	F
CKC110	E-3	F
CKC112	D-3	F
CKC113	D-3	F
CKC114	D-3	F
CKC115	D-3	F
CKC116	D-4	F
CKC117	D-3	F
CKC118	D-3	F
CKC119	D-3	F
CKC121	D-3	F
CKC122	D-3	F
CKC123	D-4	F
CKC124	D-3	F
CKC125	D-4	F
CKC126	D-4	F
CKC127	D-3	F
CKC128	D-3	F
CKC129	D-3	F
CKC131	E-4	F
CKC132	E-4	F
CKC133	E-4	F
CKC134	E-4	F
CKC135	E-4	F
CKC136	E-4	F
CKC137	E-4	F
CKC138	E-4	F
CKC139	E-4	F
CKD1	E-9	F
CKE9001	A-5	F
CKE9002	A-3	F
CKE9003	B-4	F
CKE9004	A-5	F
CKE9005	B-4	F
CKE9006	A-3	F
CKE9007	A-3	F
CKE9008	A-4	F
CKE9009	A-4	F
CKE9010	A-4	F
CKE9011	A-4	F
CKE9016	A-4	F
CKE9017	A-5	F
CKE9018	A-4	F
CKE9019	A-4	F
CKE9020	A-3	F
CKE9021	A-4	F
CKE9022	B-4	F
CKE9023	B-4	F
CKE9024	B-4	F
CKE9025	A-5	F
CKE9026	A-5	F

CKE9027	B-4	F
CKE9028	A-6	F
CKE9029	A-3	F
CKE9030	A-3	F
CKF1	C-4	F
CKF3	B-4	F
CKF4	C-3	F
CKF5	B-3	F
CKF6	C-3	F
CKF7	B-3	F
CKF8	C-3	F
CKF9	B-3	F
CKF10	C-3	F
CKF11	B-3	F
CKF12	C-3	F
CKF13	B-3	F
CKF14	C-3	F
CKF15	B-3	F
CKF16	C-3	F
CKF17	B-3	F
CKF18	B-3	F
CKF21	B-3	F
CKF23	B-3	F
CKF25	B-3	F
CKF27	B-3	F
CKF29	B-3	F
CKF31	B-3	F
CKF33	B-3	F
CKF35	B-3	F
CKF36	C-3	F
CKF37	B-3	F
CKF38	B-3	F
CKF40	C-4	F
CKG1	A-8	F
CKG2	B-8	F
CKG3	A-8	F
CKG5	A-8	F
CKG7	A-8	F
CKG9	A-8	F
CKG11	A-8	F
CKG13	A-8	F
CKG14	A-8	F
CKH1	B-2	F
CKH2	B-2	F
CKH4	B-2	F
CKH6	B-2	F
CKH8	B-2	F
CL3201	C-6	F
CL3202	D-4	F
CL3207	D-3	C
CL3208	D-3	C
CL3209	D-3	C
CL3210	D-3	C
CL3211	D-3	C
CL3212	D-3	C
CL3213	E-3	C
CL3214	D-3	C
CL3215	E-3	C
CL3501	D-3	F
CL3502	D-3	F
CL3503	D-3	F
CL3504	D-3	F
CL3505	D-3	F
CL3506	D-3	F
CL3507	D-3	F
CL3508	D-3	F
CL3509	D-3	F
CL3510	D-3	F
CL3511	D-3	F
CL3512	D-3	F
CL3513	C-4	F
CL3601	C-9	F
CL3602	B-9	F
CL3603	B-8	F
CL3604	B-9	F
CL3605	C-8	F
CL3606	B-8	F
CL3607	C-9	F
CL3608	C-9	F
CL3609	D-9	F
CL3610	D-9	F
CL3611	C-9	F
CL3612	C-9	F
CL3613	C-9	F
CL3614	C-9	F
CL3615	C-9	F
CL3616	C-9	F
CL3617	C-9	F
CL3618	C-8	F
CL3619	C-9	F

CL3620	C-9	F
CL3621	C-9	F
CL3622	C-9	F
CL3623	C-9	F
CL3624	C-9	F
CL3625	C-9	F
CL3626	C-9	F
CL3627	C-9	F
CL3628	C-8	F
CL3629	C-8	F
CL3630	C-9	F
CL3631	C-9	F
CL3632	C-9	F
CL3633	C-9	F
CL3634	C-9	F
CL3635	D-9	F
CL3636	C-8	F
CL3637	B-9	F
CL3638	B-9	F
CL3639	D-9	F
CL3640	D-9	F
CL3641	D-9	F
CL3642	C-8	F
CL3643	C-8	F
CL3644	C-8	F
CL3645	C-8	F
CL3646	C-8	F
CL3647	C-8	F
CL3648	C-8	F
CL3649	C-8	F
CL3650	C-8	F
CL3651	C-8	F
CL3652	C-8	F
CL3653	C-8	F
CL3654	C-9	F
CL3655	C-8	F
CL3656	B-8	F
CL3657	B-8	F
CL3658	B-8	F
CL6001	D-4	F
CL6003	D-4	F
CL6701	A-4	F
CL6702	A-4	F
CL6703	A-4	F
CL6704	A-4	F
CL6706	A-4	F
CL6708	A-4	F
CL6786	B-3	F
CL6787	C-4	F
CL6788	C-4	F
CL6790	B-4	F
CL6791	C-4	F
CL6792	C-4	F
CL6793	B-4	F
CL6795	B-3	F
CL6796	B-3	F
CL6797	B-3	F
CL6798	D-7	F
CL6800	D-7	F
CL6802	A-7	F
CL6803	B-7	F
CL6804	D-7	F
CL6805	D-7	F
CL6806	B-7	F
CL6811	B-4	F
CL6812	B-4	F
CL6813	B-4	F
CL6814	B-4	F
CL6815	B-4	F
CL6816	B-4	F
CL6817	B-4	F
CL30001	C-1	C
CL37001	C-1	F
CL37002	D-1	F
CL37003	C-1	F
CL37004	C-1	F
CL37005	C-1	F
CL37006	C-1	F
CL37007	C-1	F
CL37008	C-1	F
CL37009	C-1	F
CL37010	C-1	F
CL37011	C-1	F
CL37012	C-1	F
CL37013	C-2	F
CL37034	B-2	F
CL37035	B-2	F
CL37036	B-2	F
CL50001	C-7	F
CL50002	D-7	F

CL50004	D-7	F
CL50006	D-7	F
CL50008	B-6	F
TL6001	B-9	F
TL6002	B-9	F
TL6003	B-9	F
TL6004	B-9	F
TL6005	C-9	F
TL6006	C-9	F
Connector		
FP3501	B-3	F
FP3502	C-3	F
P3503	B-5	F
P6001	E-8	F
PS9001	D-4	C
PS9002	A-4	C
PS9003	A-6	C
PS37001	B-1	F
Diode		
D3203	D-3	C
D3204	C-3	C
D3205	E-2	C
D3206	D-2	C
D9001	A-5	F
Crystal Osillator		
X3202	C-3	C
X6001	D-5	C
X37001	B-8	C
Coil		
L37001	B-2	F
LB3201	C-4	C
LB3202	C-5	C
LB3203	D-4	C
LB3204	C-5	C
LB3205	C-5	C
LB3206	D-2	C
LB3207	D-2	C
LB3401	B-3	C
LB3402	B-4	C
LB3501	B-5	F
LB3502	B-4	F
LB3503	B-4	F
LB4401	B-7	F
LB4402	A-7	F
LB4403	B-3	C
LB9001	A-6	C
LB9002	A-5	C
LB9003	A-5	C
LB9004	A-6	C
LB9005	A-5	C
LB9006	B-3	C
LB9007	A-5	C
LB9008	A-5	C
LB9009	A-5	C
LB9010	E-5	C
LB9011	E-5	C
LB9012	A-5	C
LB9020	A-6	F
LB9021	A-6	F
LB9038	A-6	F
LB37001	A-9	C
LB37002	B-7	C
LB37005	B-8	C
LB50001	B-2	C
LB50003	D-7	F
LB50004	A-7	F
LB50005	E-6	F
LB50006	B-8	F
Filter		
FL3201	D-3	C
FL3202	D-2	C
FL3205	D-4	C
FL3209	D-4	C
FL3210	E-3	C
FL3211	E-3	C
FL3212	D-4	C
FL3213	D-3	C
FL3214	D-2	C
FL3215	E-2	C
FL3216	C-4	C
FL3217	E-2	C
FL3218	C-4	C
FL3219	D-2	C
FL3220	C-4	C
FL3221	D-3	C
FL3222	C-7	F
FL3225	C-4	C
FL3401	B-3	C
FL3402	B-4	C
FL3403	A-6	F

FL3404	A-6	F
FL3405	B-5	F
FL3406	A-5	F
FL3409	B-5	F
FL3410	B-5	F
FL3411	B-6	F
FL3421	B-6	F
FL3428	A-6	F
FL3501	C-1	F
FL3502	D-2	F
FL3503	C-1	F
FL3504	D-2	F
FL3505	D-3	F
FL3506	D-3	F
FL3507	D-3	F
FL3508	D-3	F
FL3509	D-4	F
FL3510	D-3	F
FL3511	C-2	F
FL3512	C-3	F
FL3513	C-4	F
FL3514	C-4	F
FL3601	C-7	F
FL3602	B-8	F
FL3603	C-7	F
FL3604	D-8	F
FL3605	B-8	F
FL3606	C-8	F
FL3607	C-8	F
FL3608	B-8	F
FL3609	B-8	F
FL3610	B-8	F
FL3614	B-5	F
FL4401	B-6	F
FL4402	B-7	F
FL6001	D-5	C
FL6002	D-5	C
FL6003	D-6	C
FL6004	D-6	C
FL6005	D-5	C
FL6006	D-6	C
FL6007	C-6	C
FL6008	C-6	C
FL6009	D-5	C
FL6010	B-8	C
FL6011	D-7	C
FL6012	D-5	C
FL6013	D-5	C
FL6701	A-3	F
FL6702	B-5	C
FL6703	B-4	F
FL9003	A-5	C
FL9004	A-5	C
FL9005	A-5	C
FL9006	A-5	C
FL9007	A-6	C
FL9012	A-6	C
FL9013	A-5	C
FL9016	B-3	C
FL9020	A-5	C
FL9022	A-4	C
FL37001	D-9	C
FL37002	C-9	C
FL37003	D-8	C
FL37004	D-7	C
FL37005	C-9	C
FL37006	C-9	C
FL37007	C-8	C
FL37008	B-8	C
FL37009	A-8	C
FL37012	B-1	F
FL37014	B-7	C
FL37015	C-2	F
FL50001	C-2	C
FL50002	C-2	C
FL50005	C-4	F
FL50006	C-5	F
FL50007	C-2	C
FL50008	D-4	F
FL50009	D-5	F
FL50010	C-5	F
FL50011	C-6	F
FL50012	C-7	F
FL50013	D-7	F
FL50014	D-7	F
FL50016	B-3	C
FL50017	D-7	F
FL50018	D-7	F
FL50019	D-6	F
FL50020	D-6	F

FL50021	A-7	F
FL50023	D-5	F
FL50025	C-3	C
FL50028	C-3	C
Capacitor		
C3201	D-3	C
C3202	D-3	C
C3203	C-5	C
C3204	C-5	C
C3205	D-3	C
C3206	C-5	C
C3207	C-3	C
C3208	D-3	C
C3209	D-3	C
C3210	D-3	C
C3211	D-4	C
C3212	D-2	C
C3213	D-5	C
C3214	D-3	C
C3215	D-3	C
C3216	E-2	C
C3217	C-4	C
C3218	D-5	C
C3226	C-3	C
C3227	B-3	C
C3228	D-3	C
C3229	C-3	C
C3230	C-3	C
C3231	D-3	C
C3234	D-3	C
C3235	D-3	C
C3236	E-3	C
C3237	E-3	C
C3238	E-3	C
C3239	E-3	C
C3240	E-3	C
C3241	E-3	C
C3242	E-3	C
C3243	E-3	C
C3244	D-3	C
C3245	E-3	C
C3246	D-3	C
C3247	E-3	C
C3248	E-3	C
C3249	E-2	C
C3250	E-2	C
C3251	D-2	C
C3252	E-2	C
C3253	E-2	C
C3254	D-3	C
C3255	E-2	C
C3256	D-2	C
C3257	D-2	C
C3258	D-2	C
C3401	B-6	F
C3402	B-6	F
C3403	B-6	F
C3502	C-2	F
C3601	C-9	F
C3602	B-9	F
C3603	B-9	F
C3604	D-8	F
C3605	D-9	F
C3606	D-8	F
C4402	A-3	C
C4403	B-3	C
C4406	A-3	C
C4407	A-7	F
C4408	A-3	C
C4409	B-2	C
C4410	B-3	C
C4411	B-2	C
C4412	A-6	F
C4413	B-6	F
C4414	A-7	F
C4415	A-3	C
C4416	A-7	F
C4417	A-7	F
C4418	A-7	F
C4419	A-7	F
C6001	E-8	C
C9001	B-4	C
C9003	B-5	C
C9004	C-4	C
C9005	A-5	C
C9006	B-4	C
C9007	C-4	C
C9008	B-5	C
C9009	E-5	C
C9010	E-5	C

C9011	A-7	C
C9012	E-5	C
C9013	B-4	C
C9015	A-7	C
C9016	B-5	C
C9017	B-8	C
C9018	E-5	C
C9019	A-7	C
C9020	B-5	C
C9021	B-6	F
C9022	C-6	F
C37001	A-9	C
C37002	B-9	C
C37003	B-9	C
C37007	B-8	C
C37008	B-8	C
C37009	B-9	C
C37011	B-8	C
C37012	A-8	C
C37013	C-1	F
C37014	C-2	F
C37015	C-8	C
C37025	C-7	C
C37031	B-2	F
C37032	B-2	F
C37033	B-2	F
C37034	B-2	F
C37035	B-2	F
C37036	C-2	F
C50001	D-7	C
C50007	E-6	F
C50008	E-6	F
C50009	E-6	F
C50010	D-2	C
C50013	A-8	F
C50014	B-3	C
C50015	B-3	C
C50016	A-7	F
C50018	A-3	C
C50025	A-2	C
C50026	A-2	C
C50027	B-3	C
C50028	B-3	C
C50031	B-6	F
C50032	D-4	F
C50033	D-6	F
Resistor		
R3202	D-3	C
R3210	D-3	C
R3214	D-3	C
R3215	E-3	C
R3217	D-5	C
R3218	D-5	C
R3219	C-3	C
R3220	C-3	C
R3221	C-3	C
R3222	C-3	C
R3223	C-3	C
R3224	C-2	C
R3227	D-3	C
R3228	D-3	C
R3229	D-2	C
R3230	D-2	C
R3231	C-4	C
R3232	C-4	C
R3234	E-2	C
R3235	E-2	C
R3236	D-2	C
R3237	C-3	C
R3238	C-3	C
R3239	D-3	C
R3240	C-3	C
R3241	C-3	C
R3242	C-3	C
R3245	C-4	C
R3246	D-4	C
R3247	D-4	C
R3250	D-2	C
R3251	D-4	C
R3252	D-4	C
R3253	D-4	C
R3254	C-7	F
R3261	D-4	C
R3401	B-6	F
R3402	A-5	F
R3403	A-6	F
R3404	A-5	F
R3406	A-5	F
R3415	B-3	C
R3416	B-3	C

R3423	B-6	F
R3425	A-6	F
R3427	A-6	F
R3503	D-3	F
R3504	D-3	F
R3505	D-3	F
R3506	D-3	F
R3507	D-3	F
R3508	D-3	F
R3509	D-4	F
R3510	D-4	F
R3511	C-4	F
R3512	C-4	F
R3513	C-4	F
R3514	D-3	F
R3515	C-4	F
R3516	C-2	F
R3517	C-4	F
R3519	C-4	F
R3520	C-4	F
R3521	C-4	F
R3522	C-4	F
R3523	C-4	F
R3524	C-4	F
R3525	C-4	F
R3526	C-4	F
R3527	C-4	F
R3528	C-4	F
R3529	C-4	F
R3531	C-4	F
R3533	C-4	F
R3534	C-2	F
R3535	C-2	F
R3536	C-2	F
R3538	C-4	F
R3539	C-3	F
R3540	B-2	F
R3541	C-3	F
R3542	C-4	F
R3543	D-4	F
R3544	C-4	F
R3545	C-2	F
R3546	C-2	F
R3547	C-4	F
R3548	C-2	F
R3601	B-6	F
R3603	B-8	F
R3604	B-8	F
R3605	B-8	F
R3606	B-8	F
R3607	B-8	F
R3608	C-8	F
R3609	B-8	F
R3610	C-9	F
R3611	B-8	F
R3612	B-9	F
R3613	D-8	F
R3614	C-8	F
R3615	C-8	F
R3616	C-8	F
R3617	B-8	F
R3618	C-8	F
R3619	C-8	F
R3620	C-8	F
R3622	C-8	F
R3623	B-9	F
R3624	D-8	F
R3625	D-8	F
R3626	C-8	F
R3627	D-8	F
R3628	B-9	F
R3629	B-9	F
R3630	C-8	F
R3631	C-9	F
R3633	D-9	F
R3634	C-9	F
R3636	D-9	F
R3637	C-9	F
R3638	C-9	F
R3639	C-9	F
R3640	B-9	F
R3641	B-9	F
R3642	B-9	F
R3643	B-8	F
R3644	B-9	F
R3645	B-9	F
R3646	B-9	F
R3647	B-9	F
R3648	B-9	F
R3649	B-9	F

R3650	B-9	F
R3652	C-9	F
R3653	C-9	F
R3654	D-9	F
R3655	D-9	F
R3656	D-9	F
R3657	D-9	F
R3658	D-9	F
R3661	B-8	F
R3662	C-9	F
R3664	B-7	F
R3691	C-9	F
R3692	C-8	F
R3693	C-8	F
R3694	C-8	F
R3695	C-8	F
R3697	D-9	F
R4403	A-6	F
R4404	A-6	F
R4405	A-7	F
R4406	A-7	F
R4407	A-7	F
R4408	A-7	F
R4411	A-7	F
R4412	A-7	F
R4415	B-7	F
R4416	B-7	F
R4418	B-7	F
R4419	B-7	F
R4420	A-7	F
R4421	A-7	F
R6001	E-8	C
R6002	D-6	C
R6003	D-7	C
R6004	D-6	C
R6005	D-6	C
R6006	D-6	C
R6007	D-6	C
R6008	D-6	C
R6009	D-7	C
R6010	D-5	C
R6011	D-5	C
R6012	D-5	C
R6013	D-7	C
R6014	D-7	C
R6015	D-5	C
R6016	B-8	C
R6017	E-7	C
R6019	D-6	C
R6022	D-7	C
R6024	D-7	C
R6027	D-7	C
R6029	D-7	C
R6701	B-3	F
R6702	A-3	F
R6704	B-3	F
R6705	A-3	F
R6706	B-3	F
R6707	B-3	F
R6708	B-2	F
R6709	A-3	F
R6710	B-7	C
R6711	C-4	F
R6712	C-4	F
R6713	A-3	F
R6714	B-4	F
R6715	B-4	F
R6716	C-4	F
R6717	B-4	F
R6718	C-4	F
R6719	A-3	F
R6720	B-4	F
R6721	B-4	F
R6722	A-6	C
R6723	B-4	F
R6724	B-4	F
R6725	A-4	F
R6726	A-4	F
R6727	B-3	F
R6728	B-4	F
R6729	B-3	F
R6730	B-5	C
R6731	B-3	F
R6732	B-3	F
R6733	B-4	F
R6734	B-4	F
R6735	B-4	F
R6736	B-4	F
R6737	B-3	F
R6738	B-3	F

R6739	A-3	F
R6740	B-3	F
R6741	B-2	F
R6742	B-3	F
R6743	B-2	F
R6744	B-3	F
R6745	C-4	F
R6746	B-2	F
R6747	B-7	C
R6748	A-3	F
R6749	A-7	C
R6750	A-5	F
R6753	A-5	F
R6755	B-4	F
R6756	B-4	F
R9001	E-4	C
R9008	E-4	C
R9014	E-5	C
R9015	A-6	F
R9016	E-5	C
R36001	B-8	F
R36002	C-8	F
R37001	B-9	C
R37002	B-9	C
R37003	A-9	C
R37004	A-9	C
R37005	A-9	C
R37006	B-9	C
R37007	B-9	C
R37008	B-9	C
R37009	A-8	C
R37010	C-7	C
R37011	C-7	C
R37012	C-7	C
R37013	C-7	C
R37014	D-9	C
R37015	D-8	C
R37016	A-8	C
R37017	A-8	C
R37018	B-8	C
R37019	B-8	C
R37020	D-8	C
R37021	B-8	C
R37022	B-8	C
R37028	C-2	F
R37029	C-2	F
R37030	C-2	F
R37032	C-7	C
R37033	C-7	C
R37034	C-7	C
R37035	B-7	C
R37036	B-7	C
R37037	B-7	C
R37038	B-7	C
R37044	C-7	C
R37046	A-8	C
R37047	B-2	F
R37048	B-2	F
R37049	B-2	F
R37050	B-2	F
R37051	C-2	F
R37052	C-2	F
R37053	C-8	C
R37054	D-9	C
R37055	D-9	C
R37057	C-2	F
R37058	C-2	F
R37060	C-8	C
R37061	C-2	F
R37062	C-2	F
R37063	A-8	C
R37064	B-7	C
R37065	B-7	C
R37066	B-7	C
R37067	B-7	C
R37068	C-7	C
R37069	C-7	C
R37070	B-7	C
R37100	D-8	C
R37103	D-8	C
R37104	C-9	C
R37105	C-9	C
R37106	C-9	C
R37109	B-2	F
R37110	C-2	F
R50001	C-5	F
R50002	B-2	C
R50003	B-2	C
R50004	B-2	C
R50005	B-6	F

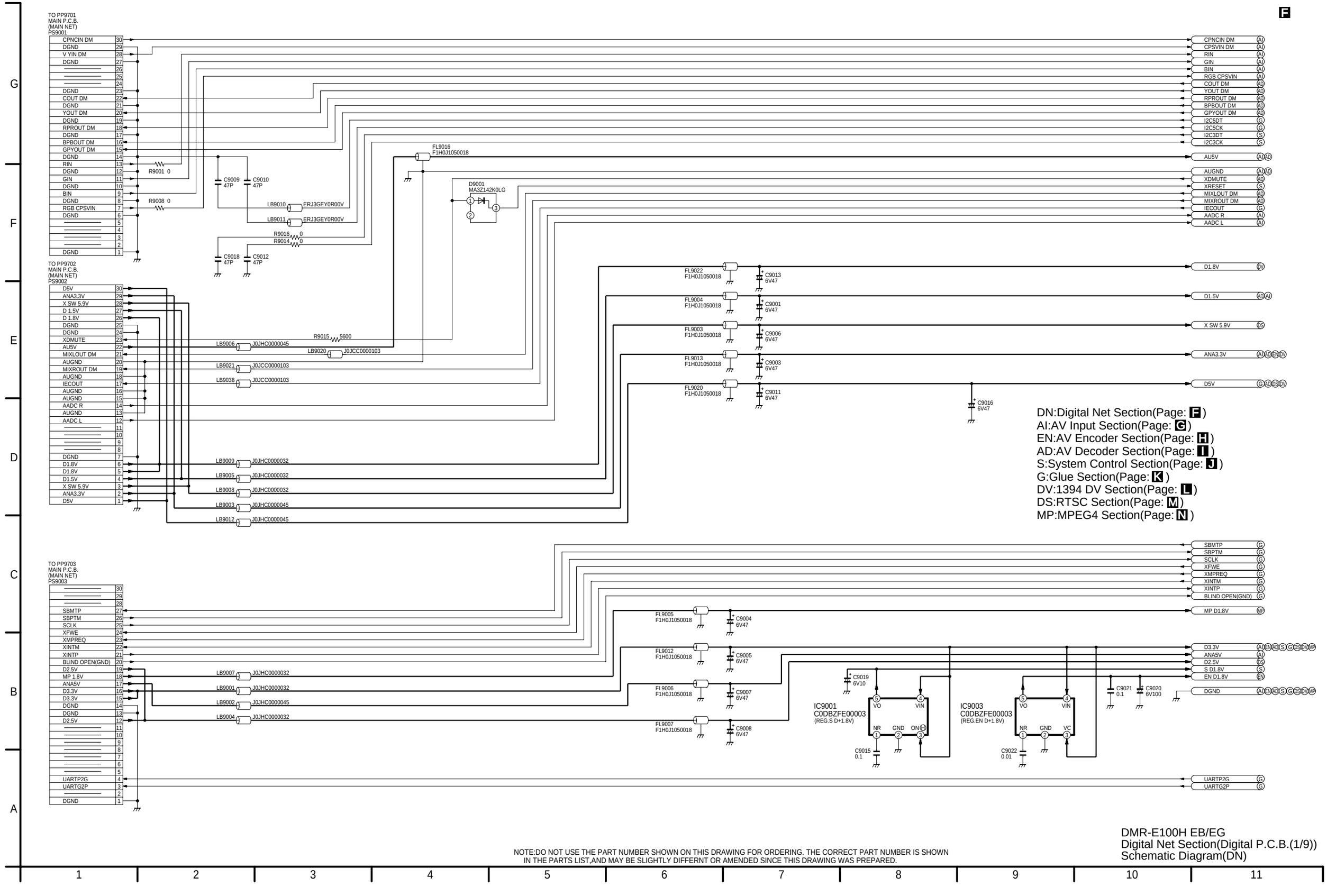
R50006	D-7	F
R50007	D-7	F
R50008	D-7	F
R50009	D-7	F
R50010	D-7	F
R50012	E-6	F
R50013	E-6	F
R50014	C-3	C
R50015	E-6	F
R50017	B-2	C
R50018	B-3	C
R50019	C-2	C
R50021	B-2	C
R50022	E-6	F
R50023	E-6	F
R50024	C-3	C
R50025	E-6	F
R50026	E-7	F
R50027	E-7	F
R50030	E-7	F
R50031	E-7	F
R50032	E-7	F
R50033	A-8	F
R50034	E-7	F
R50035	E-7	F
R50036	E-7	F
R50037	D-7	F
R50038	E-7	F
R50039	E-7	F
R50040	E-7	F
R50041	C-3	C
R50042	E-7	F
R50043	E-6	F
R50044	A-7	F
R50045	A-7	F
R50046	A-7	F
R50047	A-7	F
R50048	E-6	F
R50049	E-6	F
R50050	C-3	C
R50052	B-3	C
R50053	C-2	C
R50054	C-3	C
R50055	C-3	C
R50058	C-4	C
R50060	C-3	C
R50080	C-3	C
R50082	E-6	F
R50083	E-6	F
R50084	C-3	C
R50086	A-8	F
RA3401	C-4	C
RA3402	C-4	C
RA3403	B-6	F
RA3404	B-6	F
RA3405	B-4	C
RA3406	A-4	C
RA3407	C-3	C
RA3408	B-3	C
RA3409	B-6	F
RA3410	B-3	C
RA3411	B-3	C
RA3412	B-3	C
RA3435	A-5	F
RA3436	A-6	F
RX3201	C-5	C
RX3202	C-5	C
RX3203	C-5	C
RX3204	C-5	C
RX3205	C-4	C
RX3206	C-4	C
RX3207	C-4	C
RX3208	D-5	C
RX3209	C-4	C
RX3210	C-4	C
RX3214	D-2	C
RX3215	D-2	C
RX3216	D-2	C
RX3501	D-3	F
RX3502	D-3	F
RX3503	D-3	F
RX3504	D-3	F
RX3505	D-3	F
RX3506	D-3	F
RX3507	D-3	F
RX3508	D-4	F
RX3509	D-3	F
RX3510	D-4	F
RX3511	C-3	F
RX3512	D-4	F

RX3513	D-4	F
RX3514	C-3	F
RX3515	C-3	F
RX3516	C-4	F
RX3517	C-4	F
RX3518	C-3	F
RX3519	C-3	F
RX3520	C-4	F
RX3521	C-4	F
RX3522	C-3	F
RX3523	C-4	F
RX3524	C-4	F
RX3525	C-3	F
RX3526	C-3	F
RX3527	C-3	F
RX3528	C-3	F
RX3529	C-4	F
RX3530	C-3	F
RX3531	C-3	F
RX3532	C-3	F
RX3533	C-3	F
RX3534	C-3	F
RX3535	C-3	F
RX3536	C-3	F
RX3537	C-3	F
RX3538	C-3	F
RX3601	C-7	F
RX3602	C-7	F
RX3603	B-8	F
RX3604	C-8	F
RX3605	B-8	F
RX3606	C-8	F
RX3607	B-8	F
RX3608	B-8	F
RX3615	C-9	F
RX3616	C-9	F
RX3617	C-9	F
RX3618	C-9	F
RX3619	C-9	F
RX3620	D-9	F
RX3621	C-9	F
RX3622	C-9	F
RX3631	B-5	F
RX3632	C-5	F
RX3650	B-7	F
RX3651	B-7	F
RX3653	C-8	F
RX3654	D-8	F
RX3655	C-8	F
RX3656	D-8	F
RX3657	D-8	F
RX3658	C-8	F
RX3659	D-8	F
RX3660	C-8	F
RX3661	C-8	F
RX3662	D-8	F
RX3663	C-7	F
RX3664	D-7	F
RX6001	D-6	C
RX6002	D-6	C
RX6003	D-6	C
RX6004	D-6	C
RX6005	D-6	C
RX6006	D-6	C
RX6007	E-6	C
RX6008	E-6	C
RX6009	D-6	C
RX6010	C-5	C
RX6011	C-6	C
RX6012	C-6	C
RX6013	E-6	C
RX6014	E-6	C
RX6015	E-6	C
RX6016	D-6	C
RX6017	E-6	C
RX6018	D-6	C
RX6019	D-6	C
RX6020	D-6	C
RX6021	E-6	C
RX6022	D-6	C
RX6023	C-7	C
RX6024	D-6	C
RX6025	E-6	C
RX6026	D-6	C
RX6027	E-7	C
RX6028	D-7	C
RX6029	D-6	C
RX6030	D-6	C
RX6031	D-6	C
RX6032	D-5	C

RX6033	E-5	C
RX6034	D-5	C
RX6035	D-5	C
RX6036	D-5	C
RX6037	D-5	C
RX6038	D-5	C
RX6039	D-5	C
RX6040	D-5	C
RX6041	B-8	C
RX6042	B-8	C
RX6043	B-8	C
RX6044	B-8	C
RX6045	D-7	C
RX6046	D-7	C
RX6047	D-7	C
RX6048	D-7	C
RX6701	A-3	F
RX6702	A-3	F
RX6703	A-5	F
RX6704	A-5	F
RX6705	B-3	F
RX6706	A-3	F
RX6707	A-3	F
RX6708	A-3	F
RX6709	A-3	F
RX6710	A-3	F
RX6711	B-3	F
RX6712	B-3	F
RX6713	B-3	F
RX6714	B-4	F
RX6715	A-3	F
RX6716	A-3	F
RX6717	A-4	F
RX6718	A-3	F
RX6719	A-4	F
RX6720	B-4	F
RX6721	B-4	F
RX6722	A-4	F
RX6723	A-3	F
RX6724	B-4	F
RX6725	B-4	F
RX6726	A-4	F
RX6727	A-4	F
RX6728	A-4	F
RX6729	A-4	F
RX6730	B-4	F
RX6731	B-4	F
RX6732	B-4	F
RX6733	A-4	F
RX6735	B-4	F
RX6736	A-4	F
RX6737	A-4	F
RX6738	A-4	F
RX6739	A-4	F
RX6740	A-4	F
RX6741	B-4	F
RX6742	B-4	F
RX6743	B-4	F
RX6744	B-4	F
RX6745	B-4	F
RX6746	B-2	F
RX6747	A-3	F
RX6748	A-3	F
RX6749	A-3	F
RX37001	C-9	C
RX37002	D-9	C
RX37003	C-9	C
RX37004	C-9	C
RX37005	C-9	C
RX37006	D-7	C
RX37007	C-7	C
RX37008	B-2	F
RX37009	D-9	C
RX37010	D-9	C
RX37011	D-8	C
RX37012	D-8	C
RX37013	D-8	C
RX37014	D-8	C
RX37015	C-8	C
RX37016	C-8	C
RX37017	C-8	C
RX37018	C-8	C
RX50001	D-7	C
RX50002	D-7	C
RX50009	C-5	F
RX50010	C-5	F
RX50011	C-4	F
RX50012	C-4	F
RX50013	D-4	F
RX50014	D-4	F

RX50015	D-5	F
RX50016	D-5	F
RX50017	B-6	F
RX50018	C-5	F
RX50019	C-5	F
RX50020	C-5	F
RX50021	C-5	F
RX50022	D-5	F
RX50023	D-5	F
RX50024	D-6	F
RX50025	D-6	F
RX50026	C-7	F
RX50027	C-7	F
RX50028	C-7	F
RX50029	C-7	F
Transformer		
T37001	B-9	C

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

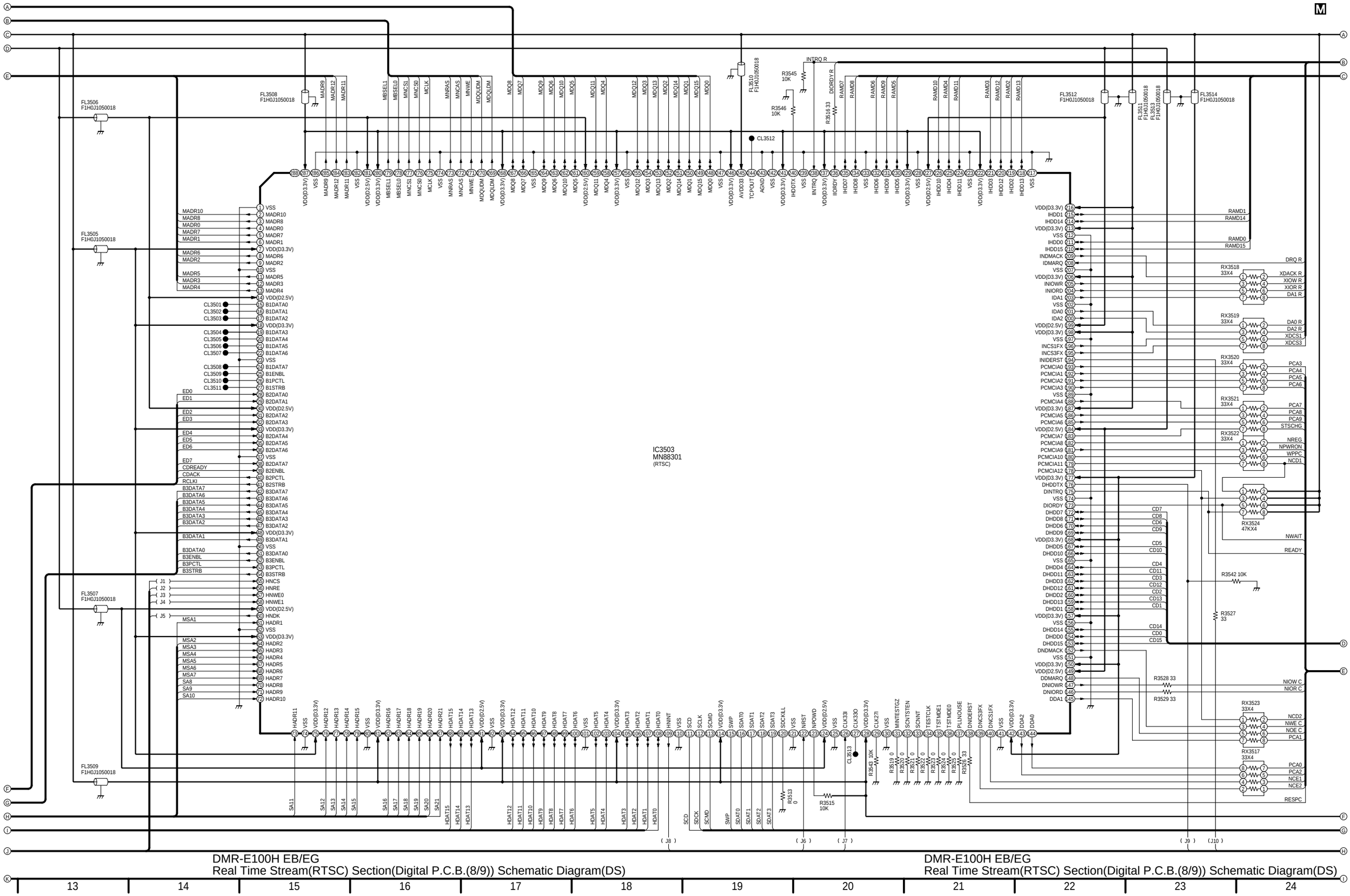
DMR-E100H EB/EG
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)

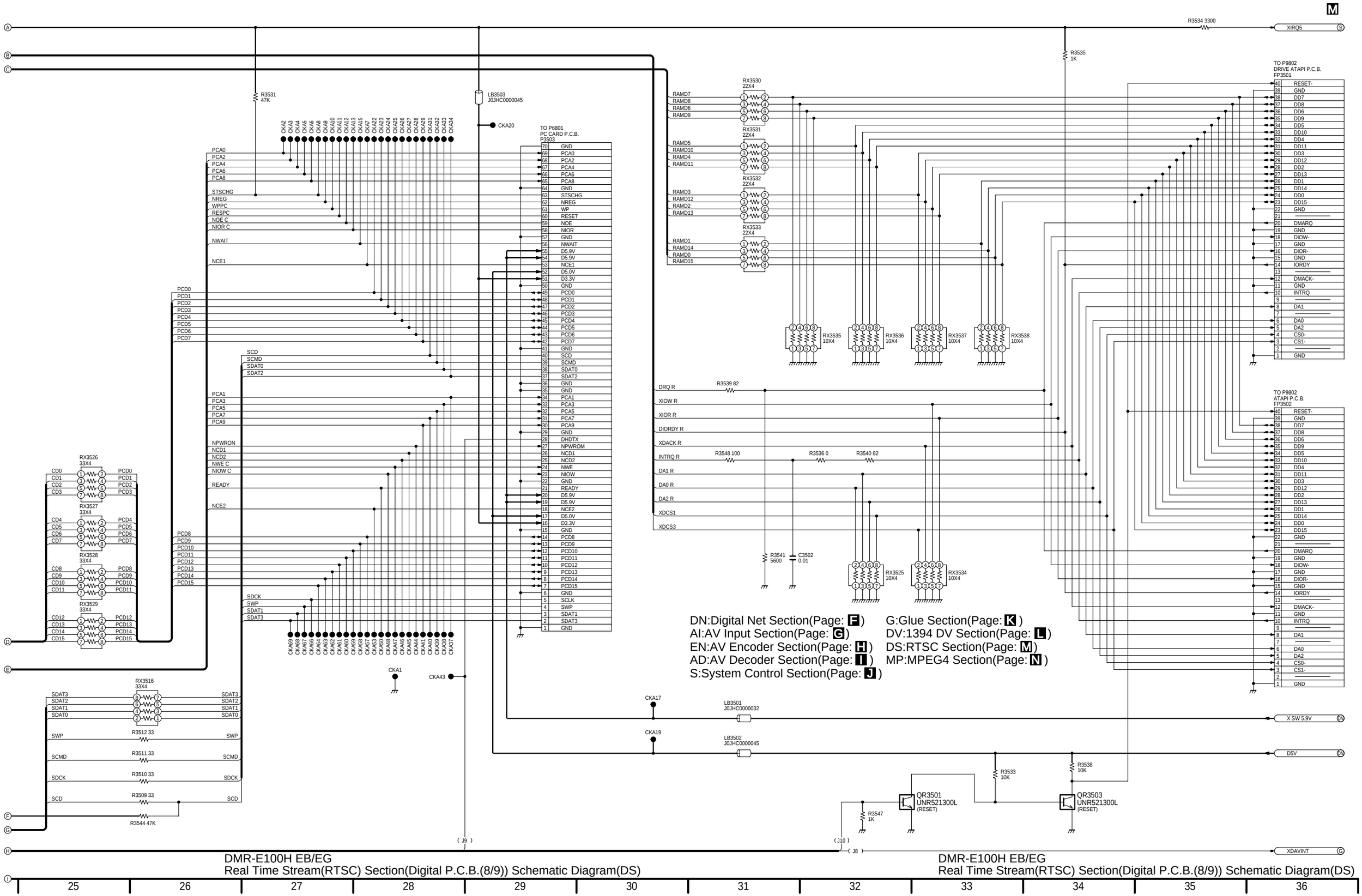
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

IC3501
C3ABQG000043
(16bit/128M SDRAM)

IC3502
C3ABQG000043
(16bit/128M SDRAM)

DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)


IC3503
MN88301
(RTSC)
CL3512
INTRQ R
R3545 10K
R3546 10K
R3516 33
R3542 10K
R3527 33
R3528 33
R3529 33
R3513 0
R3515 10K
R3540 10K
CL3513
FL3505 F1H0J1050018
FL3506 F1H0J1050018
FL3507 F1H0J1050018
FL3508 F1H0J1050018
FL3509 F1H0J1050018
FL3510 F1H0J1050018
FL3511 F1H0J1050018
FL3512 F1H0J1050018
FL3513 F1H0J1050018
FL3514 F1H0J1050018
RX3518 33X4
RX3519 33X4
RX3520 33X4
RX3521 33X4
RX3522 33X4
RX3523 33X4
RX3524 47KX4
RX3517 33X4
DRQ R
XDACK R
XIOW R
XIOR R
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
PCA3
PCA4
PCA5
PCA6
PCA7
PCA8
PCA9
STSCHG
NREG
NPWRON
WPPC
NCD1
NWAIT
READY
NIOW C
NIOR C
NCD2
NWE C
NOE C
PCA1
PCA0
PCA2
NCE1
NCE2
RESPC
RAMD1
RAMD14
RAMD0
RAMD15
DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)
DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)


M
R3534 3300
XIRQ5
R3535 1K
TO P9802 DRIVE ATAPI P.C.B. FP3501
RESET- GND DD7 DD8 DD6 DD9 DD5 DD10 DD4 DD11 DD3 DD12 DD2 DD13 DD1 DD14 DD0 DD15 GND — DMARQ GND DIOW- GND DIOR- GND IORDY — DMACK- GND INTRQ — DA1 — DA0 DA2 CS0- CS1- — GND
RX3530 22X4
RX3531 22X4
RX3532 22X4
RX3533 22X4
RAMD7 RAMD8 RAMD6 RAMD9
RAMD5 RAMD10 RAMD4 RAMD11
RAMD3 RAMD12 RAMD2 RAMD13
RAMD1 RAMD14 RAMD0 RAMD15
RX3535 10X4
RX3536 10X4
RX3537 10X4
RX3538 10X4
R3531 47K
LB3503 J0JHC0000045
CKA20
TO P6801 PC CARD P.C.B. P3503
GND PCA0 PCA2 PCA4 PCA6 PCA8 GND STSCHG NREG WP RESET NOE NIOR GND NWAIT D5.9V D5.9V NCE1 D5.0V D3.3V GND PCD0 PCD1 PCD2 PCD3 PCD4 PCD5 PCD6 PCD7 GND SCD SCMD SDAT0 SDAT2 GND GND PCA1 PCA3 PCA5 PCA7 PCA9 DHDTX NPWROM NCD1 NCD2 NWE NIOW GND READY D5.9V D5.9V NCE2 D5.0V D3.3V GND PCD8 PCD9 PCD10 PCD11 PCD12 PCD13 PCD14 PCD15 GND SCLK SWP SDAT1 SDAT3 GND
PCA0 PCA2 PCA4 PCA6 PCA8 STSCHG NREG WPPC RESPC NOE C NIOR C NWAIT NCE1
PCD0 PCD1 PCD2 PCD3 PCD4 PCD5 PCD6 PCD7
SCD SCMD SDAT0 SDAT2
PCA1 PCA3 PCA5 PCA7 PCA9 NPWRON NCD1 NCD2 NWE C NIOW C READY NCE2
PCD8 PCD9 PCD10 PCD11 PCD12 PCD13 PCD14 PCD15
SDCK SWP SDAT1 SDAT3
CKA0 CKA1 CKA2 CKA3 CKA4 CKA5 CKA6 CKA8 CKA9 CKA10 CKA11 CKA12 CKA13 CKA15 CKA7 CKA22 CKA23 CKA24 CKA25 CKA26 CKA27 CKA28 CKA29 CKA31 CKA32 CKA33 CKA34
CKA69 CKA67 CKA67 CKA65 CKA64 CKA63 CKA62 CKA61 CKA60 CKA59 CKA58 CKA57 CKA53 CKA50 CKA48 CKA47 CKA46 CKA45 CKA44 CKA41 CKA40 CKA39 CKA38 CKA37
CKA1
CKA43
RX3526 33X4
RX3527 33X4
RX3528 33X4
RX3529 33X4
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 CD8 CD9 CD10 CD11 CD12 CD13 CD14 CD15
PCD0 PCD1 PCD2 PCD3 PCD4 PCD5 PCD6 PCD7 PCD8 PCD9 PCD10 PCD11 PCD12 PCD13 PCD14 PCD15
RX3516 33X4
SDAT3 SDAT2 SDAT1 SDAT0
R3512 33
R3511 33
R3510 33
R3509 33
R3544 47K
SWP SCMD SDCK SCD
DRQ R
XIOW R
XIOR R
DIORDY R
XDACK R
INTRQ R
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
R3539 82
R3548 100
R3536 0
R3540 82
R3541 5600
C3502 0.01
RX3525 10X4
RX3534 10X4
TO P9802 ATAPI P.C.B. FP3502
RESET- GND DD7 DD8 DD6 DD9 DD5 DD10 DD4 DD11 DD3 DD12 DD2 DD13 DD1 DD14 DD0 DD15 GND — DMARQ GND DIOW- GND DIOR- GND IORDY — DMACK- GND INTRQ — DA1 — DA0 DA2 CS0- CS1- — GND
CKA17
LB3501 J0JHC0000032
X SW 5.9V
CKA19
LB3502 J0JHC0000045
D5V
R3533 10K
R3538 10K
QR3501 UNR521300L (RESET)
QR3503 UNR521300L (RESET)
R3547 1K
(J9)
(J10)
(J8)
XDAVINT
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
A B C D E F G H I
25 26 27 28 29 30 31 32 33 34 35 36

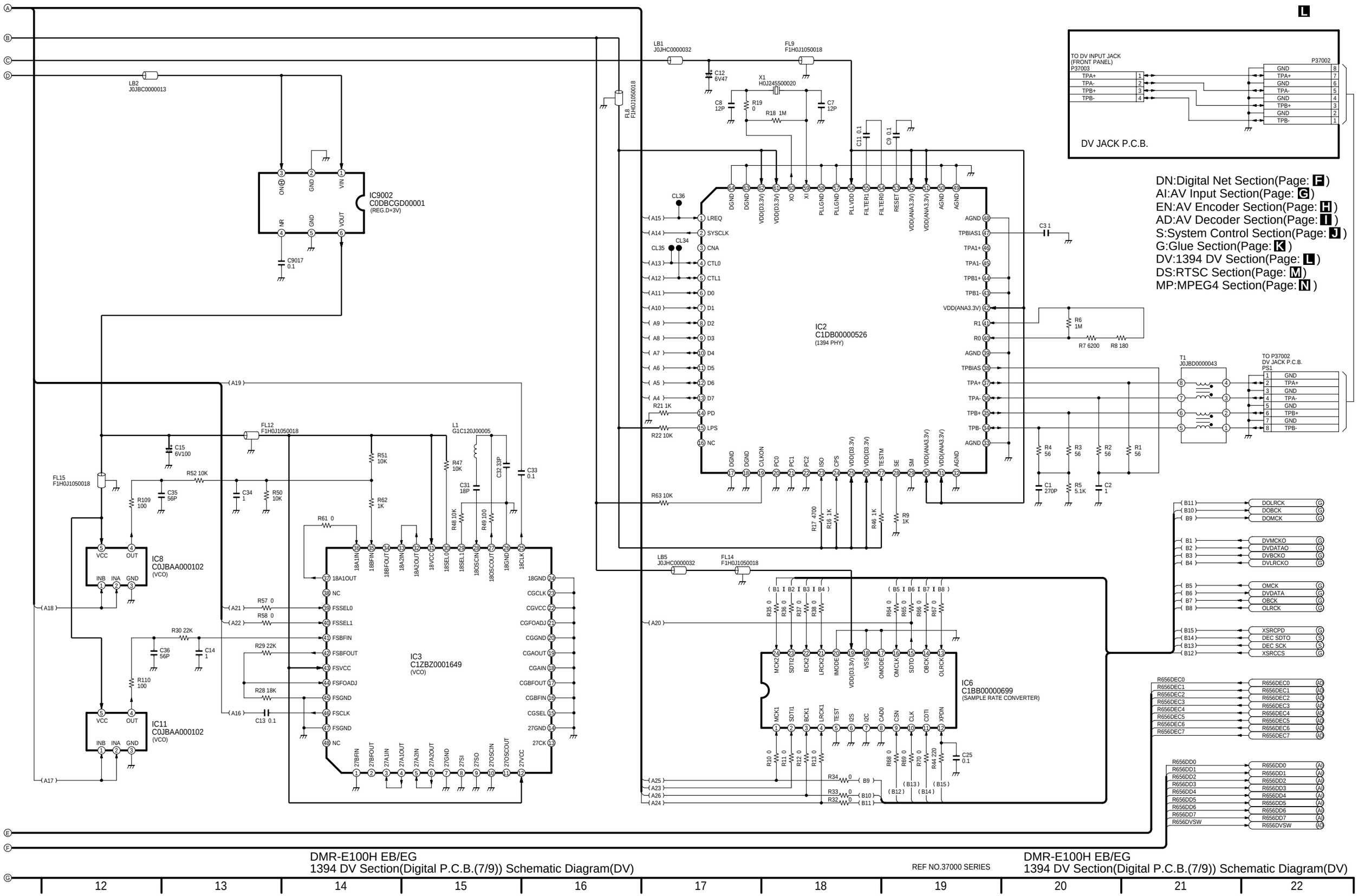
DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

DMR-E100H EB/EG
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

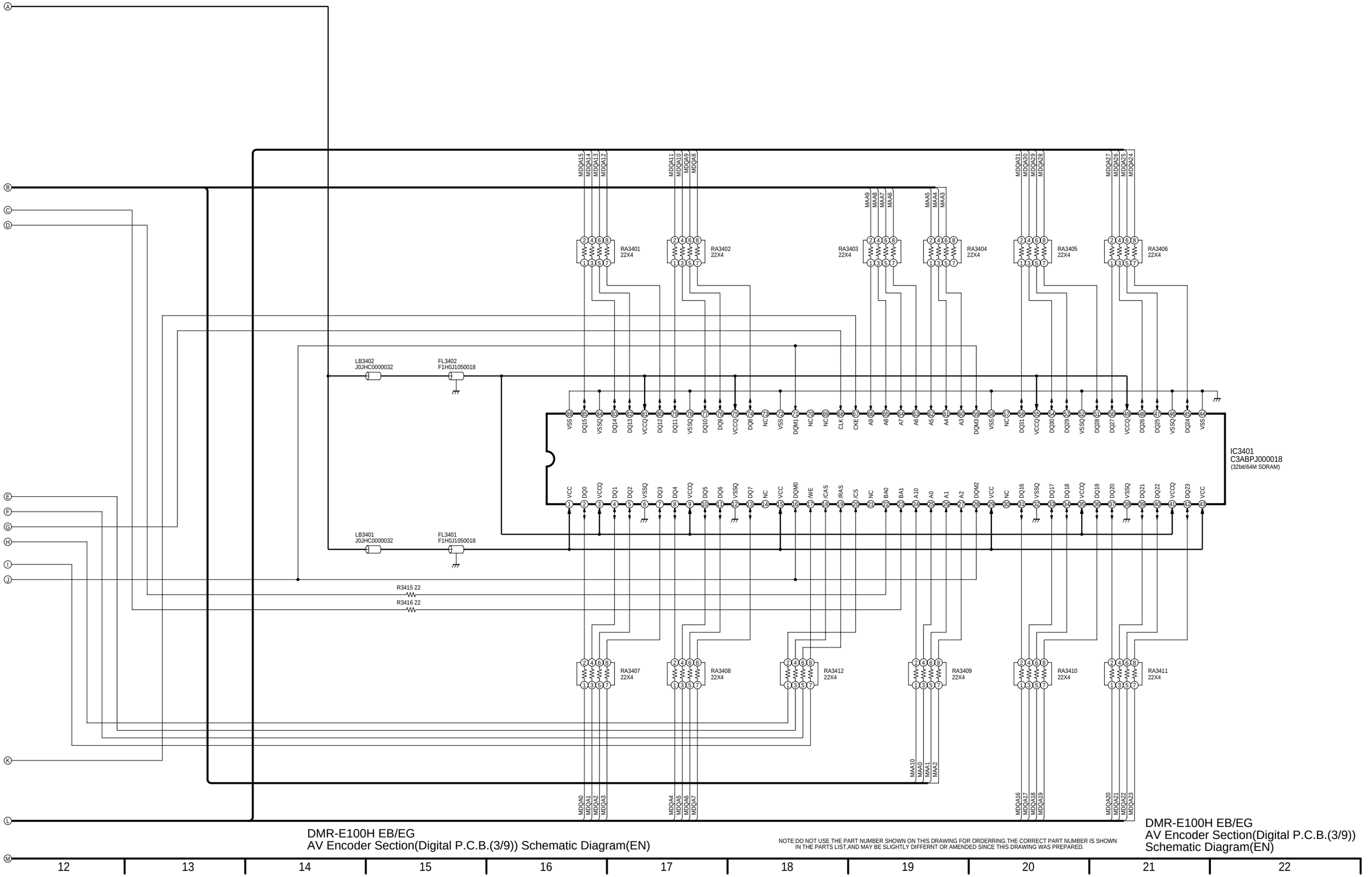
IC1
MN673745
(DV CODEC)

DMR-E100H EB/EG
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)


L
TO DV INPUT JACK
(FRONT PANEL)
P37003
TPA+ 1
TPA- 2
TPB+ 3
TPB- 4
P37002
GND 8
TPA+ 7
GND 6
TPA- 5
GND 4
TPB+ 3
GND 2
TPB- 1
DV JACK P.C.B.
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
LB1 J0JHC0000032
FL9 F1H0J1050018
FL8 F1H0J1050018
LB2 J0JBC0000013
C12 6V47
X1 H0J245500020
C8 12P
R19 0
C7 12P
R18 1M
C11 0.1
C3 0.1
IC9002 C0DBCGD00001 (REG.D+3V)
ON/OFF
GND
VIN
NR
GND
VOUT
C9017 0.1
CL36
CL35
CL34
IC2 C1DB00000526 (1394 PHY)
LREQ
SYSCLK
CNA
CTL0
CTL1
D0
D1
D2
D3
D4
D5
D6
D7
PD
LPS
NC
R21 1K
R22 10K
R63 10K
C3 1
R6 1M
R7 6200
R8 180
R4 56
R3 56
R2 56
R1 56
C1 270P
R5 5.1K
C2 1
T1 J0JBD0000043
TO P37002
DV JACK P.C.B.
PS1
GND
TPA+
GND
TPA-
GND
TPB+
GND
TPB-
R17 4700
R16 1K
R46 1K
R9 1K
A19
A18
A17
A21
A22
A16
A20
A25
A23
A26
A24
B1 B2 B3 B4
B5 B6 B7 B8
B11 B10 B9
B12 B13 B14 B15
R35 0
R36 0
R37 0
R38 0
R64 0
R65 0
R66 0
R67 0
R10 0
R11 0
R12 0
R13 0
R68 0
R69 0
R70 0
R44 220
C25 0.1
R34 0
R33 0
R32 0
IC6 C1BB00000699 (SAMPLE RATE CONVERTER)
MCK2
SDTI2
BCK2
LRCK2
IMODE
OMODE
OMCLK
SDTO
OBCK
OLRCK
MCK1
SDTI1
BCK1
LRCK1
TEST
I2S
I2C
CAD0
CSN
CLK
CDTI
XPDN
DOLRCK
DOBCK
DOMCK
DVMCKO
DVDATAO
DVBCKO
DVLRCKO
OMCK
DVDATA
OBCK
OLRCK
XSRCPD
DEC SDTO
DEC SCK
XSRCCS
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
R656DVSW
FL15 F1H0J1050018
FL12 F1H0J1050018
L1 G1C120J00005
C15 6V100
R52 10K
R109 100
C35 56P
C34 1
R50 10K
R51 10K
R62 1K
R47 10K
C31 18P
C32 33P
C33 0.1
R48 10K
R49 100
R61 0
IC8 C0JBAA000102 (VCO)
VCC
OUT
INB
INA
GND
R57 0
R58 0
R30 22K
C36 56P
C14 1
R29 22K
R28 18K
C13 0.1
R110 100
IC11 C0JBAA000102 (VCO)
IC3 C1ZBZ0001649 (VCO)
18A1IN
18BFIN
18BFOUT
18A2IN
18A2OUT
18VCC
18SEL0
18SEL1
18OSCIN
18OSCOUT
18GND
18CLK
18A1OUT
NC
FSSEL0
FSSEL1
FSBFIN
FSBFOUT
FSVCC
FSFOADJ
FSGND
FSCLK
FSGND
NC
18GND
CGCLK
CGVCC
CGFOADJ
CGGND
CGAOUT
CGAIN
CGBFOUT
CGBFIN
CGSEL
27GND
27CK
27BFIN
27BFOUT
27A1IN
27A1OUT
27A2IN
27A2OUT
27GND
27SI
27SO
27OSCIN
27OSCOUT
27VCC
LB5 J0JHC0000032
FL14 F1H0J1050018
DMR-E100H EB/EG
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)
REF NO.37000 SERIES
DMR-E100H EB/EG
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)
12
13
14
15
16
17
18
19
20
21
22

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

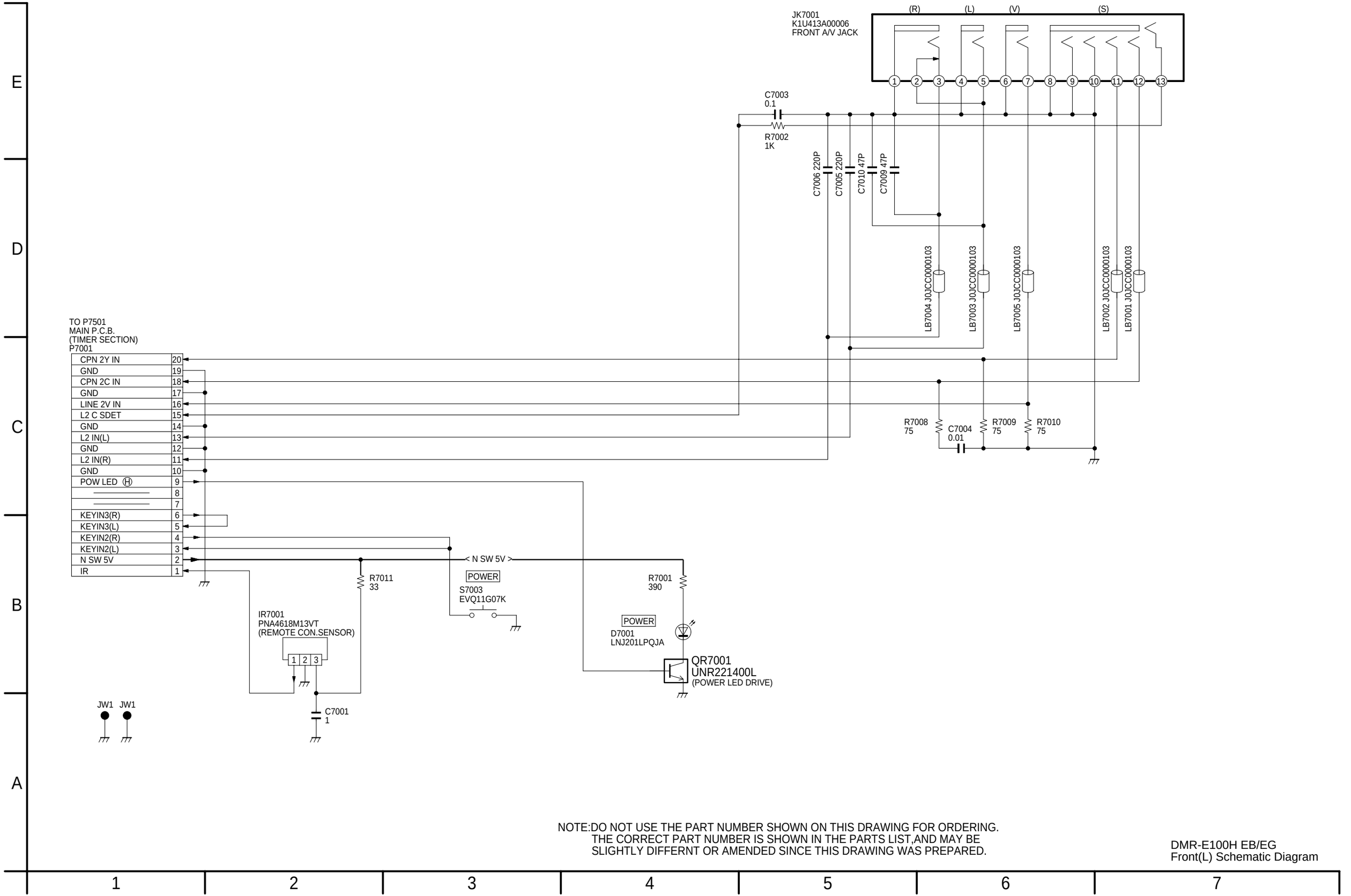
IC3402
MN85572
(AV ENCODER)


MDQA15 MDQA14 MDQA13 MDQA12
MDQA11 MDQA10 MDQA9 MDQA8
MAA9 MAA8 MAA7 MAA6
MAA5 MAA4 MAA3
MDQA31 MDQA30 MDQA29 MDQA28
MDQA27 MDQA26 MDQA25 MDQA24
RA3401 22X4
RA3402 22X4
RA3403 22X4
RA3404 22X4
RA3405 22X4
RA3406 22X4
LB3402 J0JHC0000032
FL3402 F1H0J1050018
VSS DQ15 VSSQ DQ14 DQ13 VCCQ DQ12 DQ11 VSSQ DQ10 DQ9 VCCQ DQ8 NC VSS DQM1 NC NC CLK CKE A9 A8 A7 A6 A5 A4 A3 DQM3 VSS NC DQ31 VCCQ DQ30 DQ29 VSSQ DQ28 DQ27 VCCQ DQ26 DQ25 VSSQ DQ24 VSS
IC3401
C3ABPJ000018
(32bit/64M SDRAM)
VCC DQ0 VCCQ DQ1 DQ2 VSSQ DQ3 DQ4 VCCQ DQ5 DQ6 VSSQ DQ7 NC VCC DQM0 /WE /CAS /RAS /CS NC BA0 BA1 A10 A0 A1 A2 DQM2 VCC NC DQ16 VSSQ DQ17 DQ18 VCCQ DQ19 DQ20 VSSQ DQ21 DQ22 VCCQ DQ23 VCC
LB3401 J0JHC0000032
FL3401 F1H0J1050018
R3415 22
R3416 22
RA3407 22X4
RA3408 22X4
RA3412 22X4
RA3409 22X4
RA3410 22X4
RA3411 22X4
MAA10 MAA0 MAA1 MAA2
MDQA0 MDQA1 MDQA2 MDQA3
MDQA4 MDQA5 MDQA6 MDQA7
MDQA16 MDQA17 MDQA18 MDQA19
MDQA20 MDQA21 MDQA22 MDQA23

DMR-E100H EB/EG
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Front(L) Schematic Diagram

TO PS103
POWER SUPPLY P.C.B.
P7801

LED DVD Ⓗ	1
LED REC DVD Ⓗ	2
HDD LED Ⓗ	3
LED WARP ON Ⓗ	4
HDD REC LED Ⓗ	5
KEYIN1	6
KEYIN2	7
KEYIN3	8
GND	9
X SW 5.15V	10

< X SW 5.15V >

R7821
220

TIME-WARP
D7801
B3ABA0000396

QR7801
UNR221400L
(TIME-WARP LED DRIVE)

DVD
S7817
PNA4618M13VT

R7823
220

DVD REC
D7802
LNJ201LPQJA

QR7803
UNR221400L
(DVD REC LED DRIVE)

R7822
220

QR7802
UNR221400L
(DVD LED DRIVE)

REC
S7802
EVQ11G07K
R7801
1200

CH-DOWN
S7803
EVQ11G07K
R7802
1500

SKIP-R
S7804
EVQ11G07K
R7803
2200

STOP
S7805
EVQ11G07K
R7804
3300

CH-UP
S7808
EVQ11G07K
R7807
1200

MODE
S7809
EVQ11G07K
R7808
1500

ERASE
S7810
EVQ11G07K
R7809
2200

TIME-WARP
S7811
EVQ11G07K
R7810
3300

PLAY
S7812
EVQ11G07K
R7811
5600

TIMER-REC
S7813
EVQ11G07K
R7812
11K

EXT-LINK
S7814
EVQ11G07K
R7813
33K

SKIP-F
S7815
EVQ11G07K

OPEN/CLOSE
S7816
EVQ11G07K
R7814
1200

R7815
1500

HDD
S7818
K0H1BA000372

R7825
220

HDD REC
D7804
LNJ201LPQJA

QR7805
UNR221400L
(HDD REC LED DRIVE)

R7824
220

QR7804
UNR221400L
(HDD LED DRIVE)

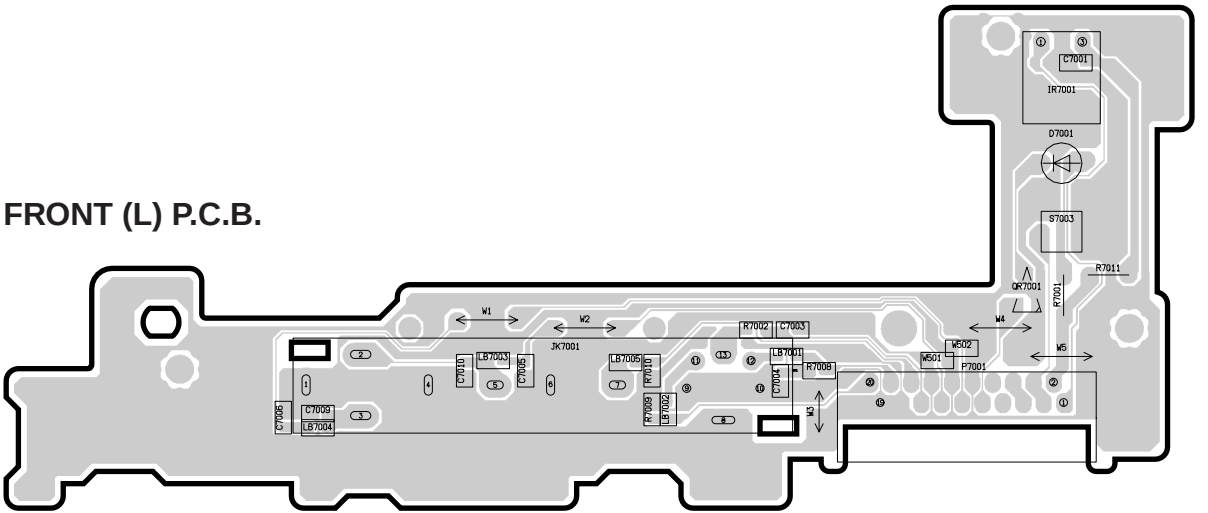
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Front(R) Schematic Diagram

E D C B A

1 2 3 4 5 6 7

FRONT (L) P.C.B.



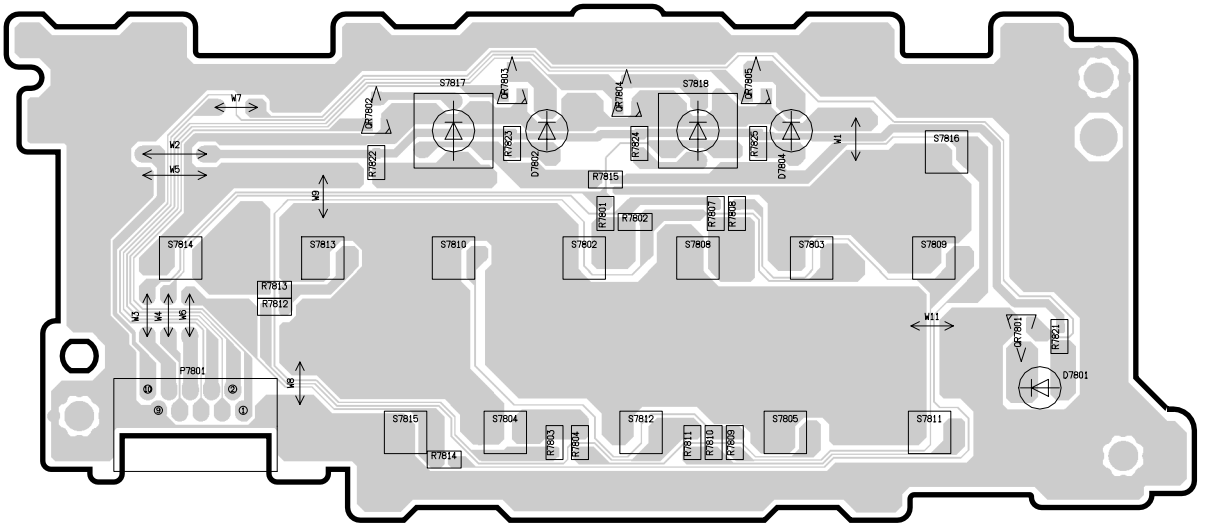
DMR-E100H EB/EG
FRONT (L) P.C.B.
(REP3598BB)

B

A

1 2 3 4 5

FRONT (R) P.C.B.



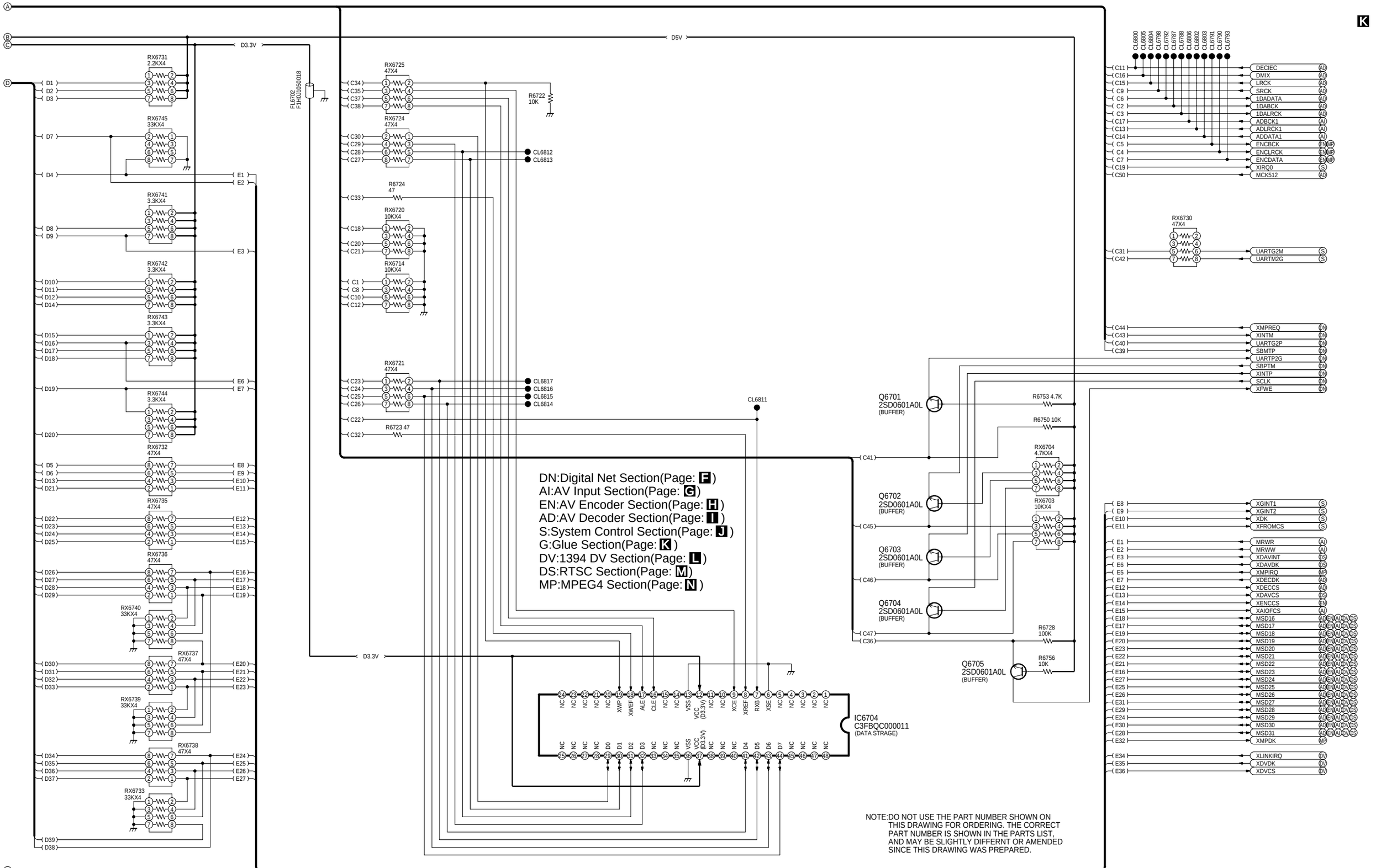
DMR-E100H EB/EG
FRONT (R) P.C.B.
(REP3598AA)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

IC6701
C1ZBZ0002255
(GULE)

IC6702
C0JBAB000474
(CLOCK OUT)

DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

12 13 14 15 16 17 18 19 20 21 22

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3402 / AV ENC	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656ENC0	17	VIN0
	R656OUT1	140	R656ENC1	18	VIN1
	R656OUT2	139	R656ENC2	20	VIN2
	R656OUT3	138	R656ENC3	21	VIN3
	R656OUT4	135	R656ENC4	23	VIN4
	R656OUT5	134	R656ENC5	24	VIN5
	R656OUT6	133	R656ENC6	25	VIN6
	R656OUT7	132	R656ENC7	26	VIN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3503 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	ED0	28	B2DAT0
	CDO1	64	ED1	29	B2DAT1
	CDO2	65	ED2	31	B2DAT2
	CDO3	67	ED3	32	B2DAT3
	CDO4	68	ED4	34	B2DAT4
	CDO5	69	ED5	35	B2DAT5
	CDO6	72	ED6	36	B2DAT6
	CDO7	73	ED7	38	B2DAT7

TC	IC3503 / RTSC		SIGNAL NAME	FP3501 (TO DVD RAM), FP3502 (TO HDD)	
	Port Name	Pin No		Pin No	Port Name
3	IHDD0	211	RAMD0	24	DD0
	IHDD1	215	RAMD1	26	DD1
	IHDD2	219	RAMD2	28	DD2
	IHDD3	221	RAMD3	30	DD3
	IHDD4	225	RAMD4	32	DD4
	IHDD5	230	RAMD5	34	DD5
	IHDD6	232	RAMD6	36	DD6
	IHDD7	235	RAMD7	38	DD7
	IHDD8	234	RAMD8	37	DD8
	IHDD9	231	RAMD9	35	DD9
	IHDD10	226	RAMD10	33	DD10
	IHDD11	224	RAMD11	31	DD11
	IHDD12	220	RAMD12	29	DD12
	IHDD13	218	RAMD13	27	DD13
	IHDD14	214	RAMD14	25	DD14
	IHDD15	210	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3503 / RTSC		SIGNAL NAME	IC3501,IC3502/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	248	MADQB0	2	DQ0
	MDQ1	250	MADQB1	4	DQ1
	MDQ2	252	MADQB2	5	DQ2
	MDQ3	254	MADQB3	7	DQ3
	MDQ4	258	MADQB4	8	DQ4
	MDQ5	261	MADQB5	10	DQ5
	MDQ6	263	MADQB6	11	DQ6
	MDQ7	266	MADQB7	13	DQ7
	MDQ8	267	MADQB8	42	DQ8
	MDQ9	264	MADQB9	44	DQ9
	MDQ10	262	MADQB10	45	DQ10
	MDQ11	259	MADQB11	47	DQ11
	MDQ12	255	MADQB12	48	DQ12
	MDQ13	253	MADQB13	50	DQ13
	MDQ14	251	MADQB14	51	DQ14
	MDQ15	249	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22)

TC	IC3203/VAD CON		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	141	R656MP0	138	VDIN0
	R656OUT1	140	R656MP1	137	VDIN1
	R656OUT2	139	R656MP2	136	VDIN2
	R656OUT3	138	R656MP3	134	VDIN3
	R656OUT4	135	R656MP4	133	VDIN4
	R656OUT5	134	R656MP5	132	VDIN5
	R656OUT6	133	R656MP6	130	VDIN6
	R656OUT7	132	R656MP7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002,IC6003 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3503 / RTSC		SIGNAL NAME	IC50003 / AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	B3DATA0	51	STD0	88	STD0
	B3DATA1	49	STD1	87	STD1
	B3DATA2	47	STD2	86	STD2
	B3DATA3	46	STD3	85	STD3
	B3DATA4	45	STD4	84	STD4
	B3DATA5	44	STD5	83	STD5
	B3DATA6	43	STD6	82	STD6
	B3DATA7	42	STD7	81	STD7

TC	IC6701 / GLUE		SIGNAL NAME	IC6704 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	29	D0
	ECCD1	70	DE1	30	D1
	ECCD2	69	DE2	31	D2
	ECCD3	68	DE3	32	D3
	ECCD4	71	DE4	41	D4
	ECCD5	74	DE5	42	D5
	ECCD6	73	DE6	43	D6
	ECCD7	72	DE7	44	D7

TC	IC37002 / 8bit CONVERTER		SIGNAL NAME	IC37001 / DV CODEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	D0	49	D0
	D1	7	D1	48	D1
	D2	8	D2	45	D2
	D3	9	D3	44	D3
	D4	10	D4	42	D4
	D5	11	D5	41	D5
	D6	12	D6	39	D6
	D7	13	D7	38	D7

IC Pin Terminal Chart (TC 28 - TC 32,TC34,TC37)

TC	IC50003 / AV DEC		SIGNAL NAME	IC37001 / DV CODEC	
	Port Name	Pin No		Pin No	Port Name
28	VDOUT0	140	R656DEC0	157	R656IN0
	VDOUT1	141	R656DEC1	156	R656IN1
	VDOUT2	142	R656DEC2	155	R656IN2
	VDOUT3	143	R656DEC3	154	R656IN3
	VDOUT4	145	R656DEC4	152	R656IN4
	VDOUT5	146	R656DEC5	151	R656IN5
	VDOUT6	147	R656DEC6	150	R656IN6
	VDOUT7	149	R656DEC7	149	R656IN7

TC	IC50003 / AV DEC		SIGNAL NAME	IC50009 / BUFFER	
	Port Name	Pin No		Pin No	Port Name
29	VDOUT0	140	R656DEC0	2	I0
	VDOUT1	141	R656DEC1	3	I1
	VDOUT2	142	R656DEC2	4	I2
	VDOUT3	143	R656DEC3	5	I3
	VDOUT4	145	R656DEC4	6	I4
	VDOUT5	146	R656DEC5	7	I5
	VDOUT6	147	R656DEC6	8	I6
	VDOUT7	149	R656DEC7	9	I7

TC	IC37001 / DV CODEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
30	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

TC	IC50009 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
31	O0	18	R656DD0	155	R656IN0
	O1	17	R656DD1	154	R656IN1
	O2	16	R656DD2	153	R656IN2
	O3	15	R656DD3	152	R656IN3
	O4	14	R656DD4	151	R656IN4
	O5	13	R656DD5	150	R656IN5
	O6	12	R656DD6	149	R656IN6
	O7	11	R656DD7	148	R656IN7

TC	IC3203 / VAD CON		SIGNAL NAME	IC3608 / MPEG4 CODEC	
	Port Name	Pin No		Pin No	Port Name
32	R656OUT0	141	R656ENC0	109	C DATA4
	R656OUT1	140	R656ENC1	110	C DATA5
	R656OUT2	139	R656ENC2	111	C DATA6
	R656OUT3	138	R656ENC3	112	C DATA7
	R656OUT4	135	R656ENC4	113	C DATA8
	R656OUT5	134	R656ENC5	114	C DATA9
	R656OUT6	133	R656ENC6	115	C DATA10
	R656OUT7	132	R656ENC7	116	C DATA11

TC	IC3608 / MPEG4 CODE		SIGNAL NAME	IC3607 / SDRAM(32bit/16M)	
	Port Name	Pin No		Pin No	Port Name
34	SDR DQ0	202	MPDT0	2	DQ0
	SDR DQ1	201	MPDT1	4	DQ1
	SDR DQ2	200	MPDT2	5	DQ2
	SDR DQ3	198	MPDT3	7	DQ3
	SDR DQ4	197	MPDT4	8	DQ4
	SDR DQ5	196	MPDT5	10	DQ5
	SDR DQ6	195	MPDT6	11	DQ6
	SDR DQ7	194	MPDT7	13	DQ7
	SDR DQ8	193	MPDT8	74	DQ8
	SDR DQ9	192	MPDT9	76	DQ9
	SDR DQ10	191	MPDT10	77	DQ10
	SDR DQ11	188	MPDT11	79	DQ11
	SDR DQ12	187	MPDT12	80	DQ12
	SDR DQ13	186	MPDT13	82	DQ13
	SDR DQ14	185	MPDT14	83	DQ14
	SDR DQ15	184	MPDT15	85	DQ15
	SDR DQ16	183	MPDT16	31	DQ16
	SDR DQ17	182	MPDT17	33	DQ17
	SDR DQ18	181	MPDT18	34	DQ18
	SDR DQ19	180	MPDT19	36	DQ19
	SDR DQ20	179	MPDT20	37	DQ20
	SDR DQ21	178	MPDT21	39	DQ21
	SDR DQ22	177	MPDT22	40	DQ22
	SDR DQ23	176	MPDT23	42	DQ23
	SDR DQ24	175	MPDT24	45	DQ24
	SDR DQ25	172	MPDT25	47	DQ25
	SDR DQ26	171	MPDT26	48	DQ26
	SDR DQ27	170	MPDT27	50	DQ27
	SDR DQ28	169	MPDT28	51	DQ28
	SDR DQ29	168	MPDT29	53	DQ29
	SDR DQ30	167	MPDT30	54	DQ30
	SDR DQ31	166	MPDT31	56	DQ31
	SDR A0	164	MPAD0	25	A0
	SDR A1	163	MPAD1	26	A1
	SDR A2	162	MPAD2	27	A2
	SDR A3	161	MPAD3	60	A3
	SDR A4	160	MPAD4	61	A4
	SDR A5	158	MPAD5	62	A5
	SDR A6	157	MPAD6	63	A6
	SDR A7	156	MPAD7	64	A7
	SDR A8	155	MPAD8	65	A8
	SDR A9	154	MPAD9	66	A9
	SDR A10	153	MPAD10	24	A10
	SDR A13	150	MPBA1	22	BA0
	SDR A14	149	MPBA0	23	BA1

TC	IC3603 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
37	O7	11	R656DD7	148	R656IN7
	O6	12	R656DD6	149	R656IN6
	O5	13	R656DD5	150	R656IN5
	O4	14	R656DD4	151	R656IN4
	O3	15	R656DD3	152	R656IN3
	O2	16	R656DD2	153	R656IN2
	O1	17	R656DD1	154	R656IN1
	O0	18	R656DD0	155	R656IN0

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2,TC35-2)

TC	20-2		17-2		19-2		35-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER		IC3608 / MPEG4	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI 0	15	D0	261	ARMD0
SD17	136	SD17	200	LDTI 1	17	D1	260	ARMD1
SD18	137	SD18	199	LDTI 2	19	D2	259	ARMD2
SD19	138	SD19	202	LDTI 3	21	D3	258	ARMD
SD20	139	SD20	197	LDTI 4	24	D4	257	ARMD4
SD21	140	SD21	196	LDTI 5	26	D5	256	ARMD5
SD22	141	SD22	198	LDTI 6	28	D6	253	ARMD6
SD23	142	SD23	195	LDTI 7	30	D7	252	ARMD7
SD24	144	SD24	194	LDTI 8	16	D8	251	ARMD8
SD25	145	SD25	192	LDTI 9	18	D9	250	ARMD9
SD26	146	SD26	191	LDTI 10	20	D10	249	ARMD10
SD27	147	SD27	189	LDTI 11	22	D11	248	ARMD11
SD28	148	SD28	190	LDTI 12	25	D12	247	ARMD12
SD29	149	SD29	188	LDTI 13	27	D13	246	ARMD13
SD30	150	SD30	187	LDTI 14	29	D14	245	ARMD14
SD31	151	SD31	185	LDTI 15	31	D15	244	ARMD15

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC25, TC27,TC35-1)

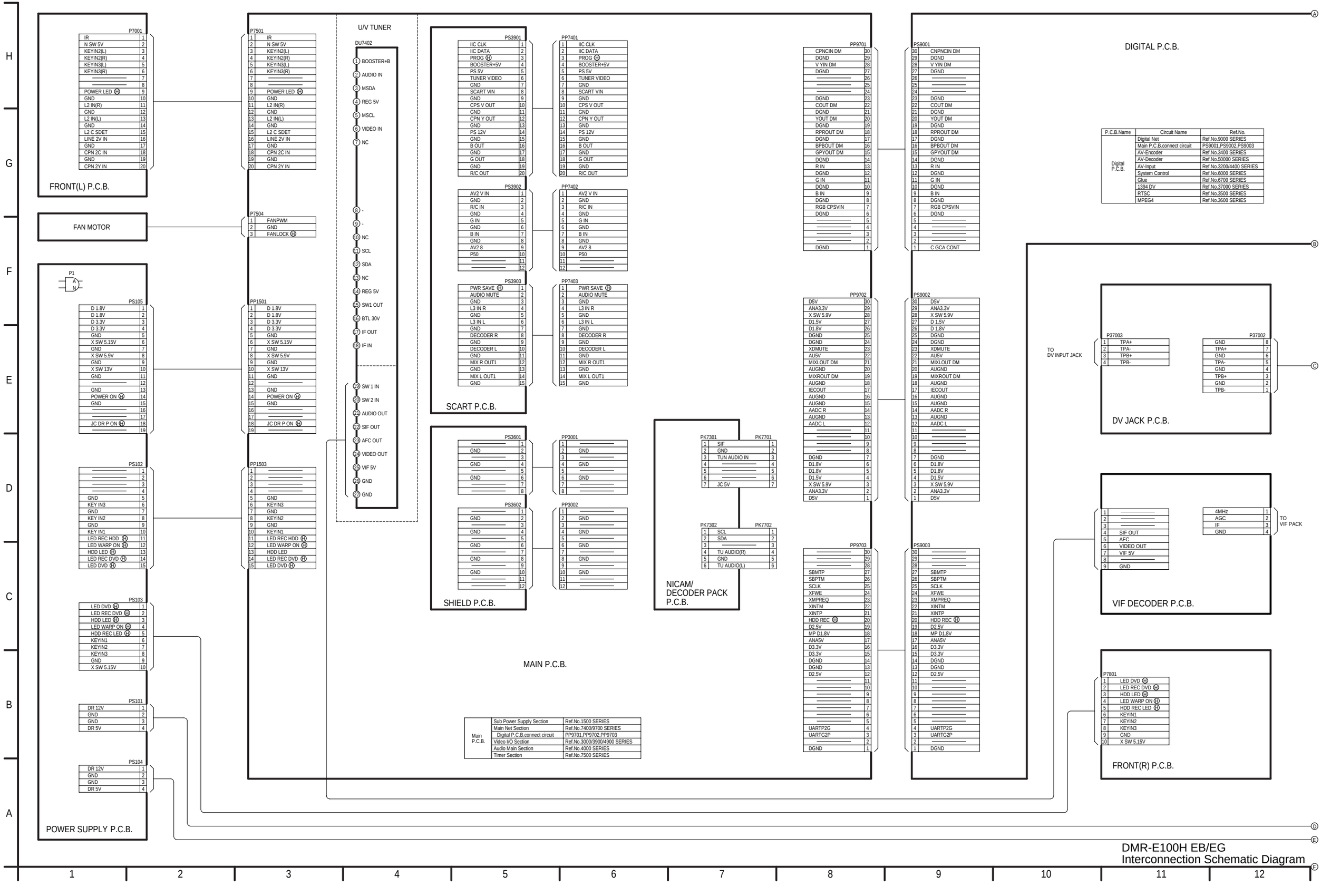
TC	20-1		12-3		17-1		18		19-1		25		27		35-1	
SIGNAL NAME	IC6004/MAIN CPU		IC3503 / RTSC		IC6701/GLUE		IC6007 / 16bit BUFFER		IC6006 / LOADER		IC50003 / AVDEC		IC37001 / DV CODEC		IC3608 / MPEG4	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	-	-	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	-	-	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	-	-	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	-	-	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	-	-	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	-	-	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	-	-	-	-
SA8	194	SA8	70	HADR8	-	-	-	-	4	A7	41	HA8	109	AD7	279	ARMA7
SA9	195	SA9	71	HADR9	-	-	-	-	42	A8	42	HA9	107	AD8	278	ARMA8
SA10	196	SA10	72	HADR10	-	-	-	-	41	A9	43	HA10	106	AD9	277	ARMA9
SA11	197	SA11	73	HADR11	-	-	-	-	40	A10	45	HA11	105	AD10	274	ARMA10
SA12	198	SA12	76	HADR12	-	-	-	-	39	A11	46	HA12	104	AD11	273	ARMA11
SA13	199	SA13	77	HADR13	-	-	-	-	38	A12	47	HA13	103	AD12	272	ARMA12
SA14	200	SA14	78	HADR14	-	-	-	-	37	A13	49	HA14	-	-	271	ARMA13
SA15	201	SA15	79	HADR15	-	-	-	-	36	A14	50	HA15	-	-	270	ARMA14
SA16	205	SA16	82	HADR16	-	-	-	-	35	A15	51	HA16	-	-	269	ARMA15
SA17	206	SA17	83	HADR17	-	-	-	-	34	A16	54	HA17	-	-	268	ARMA16
SA18	207	SA18	84	HADR18	-	-	-	-	3	A17	-	-	-	-	267	ARMA17
SA19	208	SA19	85	HADR19	-	-	-	-	-	-	-	-	-	-	266	ARMA18
SA20	209	SA20	86	HADR20	-	-	-	-	-	-	-	-	-	-	265	ARMA19
SA21	210	SA21	87	HADR21	-	-	-	-	-	-	-	-	-	-	264	ARMA20
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-	-	-	263	ARMA21
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-	-	-	262	ARMA22
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	-	-	-	-

MSD16 - MSD31 DATA BUS LINE (TC10-1, TC11-1, TC12-1, TC13-1, TC14-1, TC26-1)

TC	10-1		11-1		12-1		13-1		14-1		26-1	
SIGNAL NAME	IC3203/VAD CON		IC3402/ AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	81	HD0	108	HDAT0	12	LDEV0	55	HD0	101	ADDT0
MSD17	128	MDA1	82	HD1	107	HDAT1	13	LDEV1	56	HD1	100	ADDT1
MSD18	127	MDA2	85	HD2	106	HDAT2	11	LDEV2	57	HD2	99	ADDT2
MSD19	126	MDA3	86	HD3	105	HDAT3	10	LDEV3	59	HD3	98	ADDT3
MSD20	124	MDA4	88	HD4	103	HDAT4	7	LDEV4	60	HD4	96	ADDT4
MSD21	123	MDA5	89	HD5	102	HDAT5	8	LDEV5	61	HD5	95	ADDT5
MSD22	122	MDA6	90	HD6	100	HDAT6	9	LDEV6	63	HD6	94	ADDT6
MSD23	121	MDA7	92	HD7	99	HDAT7	14	LDEV7	64	HD7	93	ADDT7
MSD24	118	MDA8	93	HD8	98	HDAT8	2	LDEV8	65	HD8	91	ADDT8
MSD25	117	MDA9	94	HD9	97	HDAT9	4	LDEV9	67	HD9	90	ADDT9
MSD26	116	MDA10	97	HD10	96	HDAT10	3	LDEV10	68	HD10	89	ADDT10
MSD27	115	MDA11	98	HD11	95	HDAT11	208	LDEV11	70	HD11	88	ADDT11
MSD28	113	MDA12	99	HD12	94	HDAT12	207	LDEV12	72	HD12	86	ADDT12
MSD29	112	MDA13	101	HD13	90	HDAT13	6	LDEV13	73	HD13	85	ADDT13
MSD30	111	MDA14	102	HD14	89	HDAT14	205	LDEV14	74	HD14	84	ADDT14
MSD31	110	MDA15	103	HD15	88	HDAT15	203	LDEV15	76	HD15	83	ADDT15

MSA1 - MSA7 ADDRESS BUS LINE (TC24, TC10-2, TC11-2, TC12-2, TC13-2, TC14-2, TC26-2,TC36)

TC	24		10-2		11-2		12-2		13-2		14-2		26-2		36	
SIGNAL NAME	IC6007/16bit BUFFER		IC3203/VAD CON		IC3402/AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC		IC3608/MPEG4	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	106	HA0	61	HADR1	167	ADRL1	32	HA1	117	AD0	286	ARMA0
MSA2	22	4Y3	106	MAD1	107	HA1	64	HADR2	164	ADRL2	33	HA2	116	AD1	285	ARMA1
MSA3	20	4Y2	105	MAD2	108	HA2	65	HADR3	165	ADRL3	35	HA3	115	AD2	284	ARMA2
MSA4	19	4Y1	104	MAD3	109	HA3	66	HADR4	166	ADRL4	36	HA4	114	AD3	283	ARMA3
MSA5	17	3Y4	103	MAD4	105	HA4	67	HADR5	163	ADRL5	37	HA5	112	AD4	282	ARMA4
MSA6	16	3Y3	102	MAD5	-	-	68	HADR6	170	ADRL6	38	HA6	111	AD5	281	ARMA5
MSA7	14	3Y2	101	MAD6	-	-	69	HADR7	168	ADRL7	40	HA7	110	AD6	280	ARMA6


FRONT(L) P.C.B.
P7001
IR
N SW 5V
KEYIN2(L)
KEYIN2(R)
KEYIN3(L)
KEYIN3(R)
POWER LED
GND
L2 IN(R)
GND
L2 IN(L)
GND
L2 C SDET
LINE 2V IN
GND
CPN 2C IN
GND
CPN 2Y IN
FAN MOTOR
P7504
FANPWM
GND
FANLOCK
P1
A
N
PS105
D 1.8V
D 1.8V
D 3.3V
D 3.3V
GND
X SW 5.15V
GND
X SW 5.9V
GND
X SW 13V
GND
GND
POWER ON
GND
JC DR P ON
PS102
GND
KEY IN3
GND
KEY IN2
GND
KEY IN1
LED REC HDD
LED WARP ON
HDD LED
LED REC DVD
LED DVD
PS103
LED DVD
LED REC DVD
HDD LED
LED WARP ON
HDD REC LED
KEYIN1
KEYIN2
KEYIN3
GND
X SW 5.15V
PS101
DR 12V
GND
GND
DR 5V
PS104
DR 12V
GND
GND
DR 5V
POWER SUPPLY P.C.B.
P7501
IR
N SW 5V
KEYIN2(L)
KEYIN2(R)
KEYIN3(L)
KEYIN3(R)
POWER LED
GND
L2 IN(R)
GND
L2 IN(L)
GND
L2 C SDET
LINE 2V IN
GND
CPN 2C IN
GND
CPN 2Y IN
PP1501
D 1.8V
D 1.8V
D 3.3V
D 3.3V
GND
X SW 5.15V
GND
X SW 5.9V
GND
X SW 13V
GND
GND
POWER ON
GND
JC DR P ON
PP1503
GND
KEYIN3
GND
KEYIN2
GND
KEYIN1
LED REC HDD
LED WARP ON
HDD LED
LED REC DVD
LED DVD
U/V TUNER
DU7402
BOOSTER+B
AUDIO IN
MSDA
REG 5V
MSCL
VIDEO IN
NC
-
-
NC
SCL
SDA
NC
REG 5V
SW1 OUT
BTL 30V
IF OUT
IF IN
SW 1 IN
SW 2 IN
AUDIO OUT
SIF OUT
AFC OUT
VIDEO OUT
VIF 5V
GND
GND
PS3901
IIC CLK
IIC DATA
PROG
BOOSTER+5V
PS 5V
TUNER VIDEO
GND
SCART VIN
GND
CPS V OUT
GND
CPN Y OUT
GND
PS 12V
GND
B OUT
GND
G OUT
GND
R/C OUT
PS3902
AV2 V IN
GND
R/C IN
GND
G IN
GND
B IN
GND
AV2 8
P50
PS3903
PWR SAVE
AUDIO MUTE
GND
L3 IN R
GND
L3 IN L
GND
DECODER R
GND
DECODER L
GND
MIX R OUT1
GND
MIX L OUT1
GND
SCART P.C.B.
PS3601
GND
GND
GND
GND
PS3602
GND
GND
GND
GND
GND
GND
SHIELD P.C.B.
PP7401
IIC CLK
IIC DATA
PROG
BOOSTER+5V
PS 5V
TUNER VIDEO
GND
SCART VIN
GND
CPS V OUT
GND
CPN Y OUT
GND
PS 12V
GND
B OUT
GND
G OUT
GND
R/C OUT
PP7402
AV2 V IN
GND
R/C IN
GND
G IN
GND
B IN
GND
AV2 8
P50
PP7403
PWR SAVE
AUDIO MUTE
GND
L3 IN R
GND
L3 IN L
GND
DECODER R
GND
DECODER L
GND
MIX R OUT1
GND
MIX L OUT1
GND
PP3001
GND
GND
PP3002
GND
GND
GND
GND
GND
PK7301
SIF
GND
TUN AUDIO IN
JC 5V
PK7701
PK7302
SCL
SDA
TU AUDIO(R)
GND
TU AUDIO(L)
PK7702
NICAM/
DECODER PACK
P.C.B.
PP9701
CPNCIN DM
DGND
V YIN DM
DGND
DGND
COUT DM
DGND
YOUT DM
DGND
RPROUT DM
DGND
BPBOUT DM
GPYOUT DM
DGND
R IN
DGND
G IN
DGND
B IN
DGND
RGB CPSVIN
DGND
DGND
PP9702
D5V
ANA3.3V
X SW 5.9V
D1.5V
D1.8V
DGND
DGND
XDMUTE
AU5V
MIXLOUT DM
AUGND
MIXROUT DM
AUGND
IECOUT
AUGND
AUGND
AADC R
AUGND
AADC L
DGND
D1.8V
D1.8V
D1.5V
X SW 5.9V
ANA3.3V
D5V
PP9703
SBMTP
SBPTM
SCLK
XFWE
XMPREQ
XINTM
XINTP
HDD REC
D2.5V
MP D1.8V
ANA5V
D3.3V
D3.3V
DGND
DGND
D2.5V
UARTP2G
UARTG2P
DGND
MAIN P.C.B.
PS9001
CNPNCIN DM
DGND
V YIN DM
DGND
DGND
COUT DM
DGND
YOUT DM
DGND
RPROUT DM
DGND
BPBOUT DM
GPYOUT DM
DGND
R IN
DGND
G IN
DGND
B IN
DGND
RGB CPSVIN
DGND
C GCA CONT
PS9002
D5V
ANA3.3V
X SW 5.9V
D 1.5V
D 1.8V
DGND
DGND
XDMUTE
AU5V
MIXLOUT DM
AUGND
MIXROUT DM
AUGND
IECOUT
AUGND
AUGND
AADC R
AUGND
AADC L
DGND
D1.8V
D1.8V
D1.5V
X SW 5.9V
ANA3.3V
D5V
PS9003
SBMTP
SBPTM
SCLK
XFWE
XMPREQ
XINTM
XINTP
HDD REC
D2.5V
MP D1.8V
ANA5V
D3.3V
D3.3V
DGND
DGND
D2.5V
UARTP2G
UARTG2P
DGND
DIGITAL P.C.B.
P.C.B.Name
Circuit Name
Ref.No.
Digital P.C.B.
Digital Net
Ref.No.9000 SERIES
Main P.C.B.connect circuit
PS9001,PS9002,PS9003
AV-Encoder
Ref.No.3400 SERIES
AV-Decoder
Ref.No.50000 SERIES
AV-Input
Ref.No.3200/4400 SERIES
System Control
Ref.No.6000 SERIES
Glue
Ref.No.6700 SERIES
1394 DV
Ref.No.37000 SERIES
RTSC
Ref.No.3500 SERIES
MPEG4
Ref.No.3600 SERIES
TO
DV INPUT JACK
P37003
TPA+
TPA-
TPB+
TPB-
P37002
GND
TPA+
GND
TPA-
GND
TPB+
GND
TPB-
DV JACK P.C.B.
1
2
3
4
SIF OUT
AFC
VIDEO OUT
VIF 5V
GND
4MHz
AGC
IF
GND
TO
VIF PACK
VIF DECODER P.C.B.
P7801
LED DVD
LED REC DVD
HDD LED
LED WARP ON
HDD REC LED
KEYIN1
KEYIN2
KEYIN3
GND
X SW 5.15V
FRONT(R) P.C.B.
Main
P.C.B.
Sub Power Supply Section
Ref.No.1500 SERIES
Main Net Section
Ref.No.7400/9700 SERIES
Digital P.C.B.connect circuit
PP9701,PP9702,PP9703
Video I/O Section
Ref.No.3000/3900/4900 SERIES
Audio Main Section
Ref.No.4000 SERIES
Timer Section
Ref.No.7500 SERIES
DMR-E100H EB/EG
Interconnection Schematic Diagram

DIGITAL P.C.B.

DIGITAL P.C.B.

PS37001

1	GND
2	TPA+
3	GND
4	TPA-
5	GND
6	TPB+
7	GND
8	TPB-

FP3501

RESET-	40
GND	39
DD7	38
DD8	37
DD6	36
DD9	35
DD5	34
DD10	33
DD4	32
DD11	31
DD3	30
DD12	29
DD2	28
DD13	27
DD1	26
DD14	25
DD0	24
DD15	23
GND	22
———	21
DMARQ	20
GND	19
DIOW-	18
GND	17
DIOR-	16
GND	15
IORDY	14
———	13
DMACK-	12
GND	11
INTRQ	10
———	9
DA1	8
———	7
DA0	6
DA2	5
CS0-	4
CS1-	3
———	2
GND	1

P9802

40	RESET-
39	GND
38	DD7
37	DD8
36	DD6
35	DD9
34	DD5
33	DD10
32	DD4
31	DD11
30	DD3
29	DD12
28	DD2
27	DD13
26	DD1
25	DD14
24	DD0
23	DD15
22	GND
21	———
20	DMARQ
19	GND
18	DIOW-
17	GND
16	DIOR-
15	GND
14	IORDY
13	———
12	DMACK-
11	GND
10	INTRQ
9	———
8	DA1
7	———
6	DA0
5	DA2
4	CS0-
3	CS1-
2	———
1	GND

P9801

———	44
———	43
GND	42
———	41
DA1-	40
DA0-	39
DA2	38
DA0	37
———	36
DA1	35
———	34
INTRQ	33
GND	32
DMACK-	31
———	30
IORDY	29
GND	28
DIOR-	27
GND	26
DIOW-	25
GND	24
DMARQ	23
———	22
GND	21
DD15	20
DD0	19
DD14	18
DD1	17
DD13	16
DD2	15
DD12	14
DD3	13
DD11	12
DD4	11
DD10	10
DD5	9
DD9	8
DD6	7
DD8	6
DD7	5
GND	4
RESET-	3
———	2
———	1

DRIVE ATAPI P.C.B.

1	GND
2	DASP-NC
3	DA1-
4	DA0-
5	DA2
6	DA0
7	PDIAG-(C)
8	DA1
9	RESERVED
10	INTRQ
11	GND
12	DMACK-
13	GND
14	IORDY
15	GND
16	DIOR-
17	GND
18	DIOW-
19	GND
20	———
21	KEY PIN
22	GND
23	DD15
24	DD0
25	DD14
26	DD1
27	DD13
28	DD2
29	DD12
30	DD3
31	DD11
32	DD4
33	DD10
34	DD5
35	DD9
36	DD6
37	DD8
38	DD7
39	GND
40	RESET-

RAM DRIVE

5V	1
GND	2
GND	3
12V	4

FP3502

RESET-	40
GND	39
DD7	38
DD8	37
DD6	36
DD9	35
DD5	34
DD10	33
DD4	32
DD11	31
DD3	30
DD12	29
DD2	28
DD13	27
DD1	26
DD14	25
DD0	24
DD15	23
GND	22
———	21
DMARQ	20
GND	19
DIOW-	18
GND	17
DIOR-	16
GND	15
IORDY	14
———	13
DMACK-	12
GND	11
INTRQ	10
———	9
DA1	8
———	7
DA0	6
DA2	5
CS0-	4
CS1-	3
———	2
GND	1

P9802

1	RESET-
2	GND
3	DD7
4	DD8
5	DD6
6	DD9
7	DD5
8	DD10
9	DD4
10	DD11
11	DD3
12	DD12
13	DD2
14	DD13
15	DD1
16	DD14
17	DD0
18	DD15
19	GND
20	———
21	DMARQ
22	GND
23	DIOW-
24	GND
25	DIOR-
26	GND
27	IORDY
28	———
29	DMACK-
30	GND
31	INTRQ
32	RESERVED
33	DA1
34	———
35	DA0
36	DA2
37	CS0-
38	———
39	DASP
40	GND

P9801

———	1
———	2
RESET-	3
GND	4
DD7	5
DD8	6
DD6	7
DD9	8
DD5	9
DD10	10
DD4	11
DD11	12
DD3	13
DD12	14
DD2	15
DD13	16
DD1	17
DD14	18
DD0	19
DD15	20
GND	21
———	22
DMARQ	23
GND	24
DIOW-	25
GND	26
DIOR-	27
GND	28
IORDY	29
GND	30
DMACK-	31
GND	32
INTRQ	33
———	34
DA1	35
———	36
DA0	37
DA2	38
DA0-	39
———	40
DASP	41
GND	42
———	43
———	44

ATAPI P.C.B.

40	RESET-
39	GND
38	DD7
37	DD8
36	DD6
35	DD9
34	DD5
33	DD10
32	DD4
31	DD11
30	DD3
29	DD12
28	DD2
27	DD13
26	DD1
25	DD14
24	DD0
23	DD15
22	GND
21	KEY PIN
20	DMARQ
19	GND
18	DIOW-
17	GND
16	DIOR-
15	GND
14	IORDY
13	GND
12	DMACK-
11	GND
10	INTRQ
9	RESERVED
8	DA1
7	PDIAG
6	DA0
5	DA2
4	DA0-
3	DA1-
2	DASP
1	GND

HDD DRIVE

5V	1
GND	2
GND	3
12V	4

P3503

GND	1
SDAT3	2
SDAT1	3
SWP	4
SCLK	5
GND	6
PCD15	7
PCD14	8
PCD13	9
PCD12	10
PCD11	11
PCD10	12
PCD9	13
PCD8	14
GND	15
D3.3V	16
D5.0V	17
NCE2	18
D5.9V	19
D5.9V	20
READY	21
GND	22
NIOW	23
NWE	24
NCD2	25
NCD1	26
NPWROM	27
DHDTX	28
GND	29
PCA9	30
PCA7	31
PCA5	32
PCA3	33
PCA1	34
GND	35
GND	36
SDAT2	37
SDAT0	38
SCMD	39
SCD	40
GND	41
PCD7	42
PCD6	43
PCD5	44
PCD4	45
PCD3	46
PCD2	47
PCD1	48
PCD0	49
GND	50
D3.3V	51
D5.0V	52
NCE1	53
D5.9V	54
D5.9V	55
NWAIT	56
GND	57
NIOR	58
NOE	59
RESET	60
WP	61
NREG	62
STSCHG	63
GND	64
PCA8	65
PCA6	66
PCA4	67
PCA2	68
PCA0	69
GND	70

P6801

1	GND
2	SDAT3
3	SDAT1
4	SWP
5	SCLK
6	GND
7	PCD15
8	PCD14
9	PCD13
10	PCD12
11	PCD11
12	PCD10
13	PCD9
14	PCD8
15	GND
16	D3.3V
17	D5.0V
18	NCE2
19	D5.9V
20	D5.9V
21	READY
22	GND
23	NIOW
24	NWE
25	NCD2
26	NCD1
27	NPWROM
28	DHDTX
29	GND
30	PCA9
31	PCA7
32	PCA5
33	PCA3
34	PCA1
35	GND
36	GND
37	SDAT2
38	SDAT0
39	SCMD
40	SCD
41	GND
42	PCD7
43	PCD6
44	PCD5
45	PCD4
46	PCD3
47	PCD2
48	PCD1
49	PCD0
50	GND
51	D3.3V
52	D5.0V
53	NCE1
54	D5.9V
55	D5.9V
56	NWAIT
57	GND
58	NIOR
59	NOE
60	RESET
61	WP
62	NREG
63	STSCHG
64	GND
65	PCA8
66	PCA6
67	PCA4
68	PCA2
69	PCA0
70	GND

P6802

GND	1
D3	2
D4	3
D5	4
D6	5
D7	6
XCE1	7
A10	8
XOE	9
A11	10
A9	11
A8	12
A13	13
A14	14
XWE	15
READY	16
VCC	17
CPP	18
A16	19
A15	20
A12	21
A7	22
A6	23
A5	24
A4	25
A3	26
A2	27
A1	28
A0	29
D0	30
D1	31
D2	32
WP	33
GND	34
GND	35
XCD1	36
D11	37
D12	38
D13	39
D14	40
D15	41
XCE2	42
XVS1	43
XIOR	44
XIOW	45
A17	46
A18	47
A19	48
A20	49
A21	50
VCC	51
VPP	52
A22	53
A23	54
A24	55
A25	56
XVS2	57
RESET	58
XWAIT	59
RFU	60
XREG	61
BVD2	62
XSTCG	63
D8	64
D9	65
D10	66
XCD2	67
GND	68

TO PC CARD

P6803

DAT3	1
CMD	2
GND	3
3.3V	4
CLK	5
GND	6
DAT0	7
DAT1	8
DAT2	9
WP	10
CD	11
COM	12
FG	13

TO SD CARD

SD & PC CARD P.C.B.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Interconnection Schematic Diagram

DMR-E100H EB/EG
Interconnection Schematic Diagram

A B C D E F

13 14 15 16 17 18 19 20 21 22 23 24

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

IC7401
C0DBZJG00005
(REG.PS +12V)
VIN ON(H) VOUT NC GND

P X SW 13V
P X SW 5.9V
T AV2-8
T WIDE (H)
T AV2 PB (H)
P D5V
P D1.8V
P ANA3.3V
P D1.5V
P D3.3V
P MP D1.8V

C7439 0.1
R7403 3900
C7401 16V470
R7402 10K
R7401 10K
R7404 4700
R7405 470
D7401 MA2C165001VT
D7403 MA2C165001VT
QR7404 UNR511400L (SWITCH)
Q7401 2SD1819AWL (SWITCH)
QR7402 UNR521300L (WIDE (H) :ON)
QR7403 UNR521300L (SWITCH)
QR7401 UNR521300L (PWR SAVE (H) :ON)
QR7405 UNR521300L (AV2 PB (H) :ON)
C7402 0.01
R7406 22K
R7407 10K
R7408 15K

IC7402
C0DBCHD00002
(REG.BOOSTER+5V)
VOUT GND NR VIN GND ON(H)
C7403 6V47
C7405 0.1
C7407 0.01

IC7403
C0DBCHD00002
(REG.PS+5V)
VOUT GND NR VIN GND ON(H)
C7404 6V47
C7406 0.1

TO PS9002
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9702

D5V	30	
ANA3.3V	29	
X SW 5.9V	28	
D1.5V	27	
D1.8V	26	
DGND	25	
DGND	24	
XDMUTE	23	
AU5V	22	
MIXLOUT DM	21	
AUGND	20	
MIXROUT DM	19	
AUGND	18	
IECOUT	17	
AUGND	16	
AUGND	15	
AADC R	14	
AUGND	13	
AADC L	12	
	11	
	10	
	9	
	8	
DGND	7	
D1.8V	6	
D1.8V	5	
D1.5V	4	
X SW 5.9V	3	
ANA3.3V	2	
D5V	1	

LB9704
ERJ3GEY0R00V
C9936 220P
C9935 220P

XDMUTE (A)
AU5V (A)
MIXLOUT DM (A)
AUGND (A) (V)
MIXROUT DM (A)
IECOUT (A)
AADC R (A)
AADC L (A)
GND (P)

TO PS9003
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9703

	30	
	29	
	28	
SBMTP	27	
SBPTM	26	
SCLK	25	
XFWE	24	
XMPREQ	23	
XINTM	22	
XINTP	21	
BLIND OPEN(GND)	20	
D2.5V	19	
MP D1.8V	18	
ANA5V	17	
D3.3V	16	
D3.3V	15	
DGND	14	
DGND	13	
D2.5V	12	
	11	
	10	
	9	
	8	
	7	
	6	
	5	
UARTP2G	4	
UARTG2P	3	
	2	
DGND	1	

K9702 0

SBMTP (T)
SBPTM (T)
SCLK (T)
XFWE (T)
XMPREQ (T)
XINTM (T)
XINTP (T)
ANA5V (P)
D2.5V (P)
UARTP2G (T)
UARTG2P (T)

ZJ7401 K9ZZ00000424 (VJR0978)
ZJ7402 K9ZZ00000424 (VJR0978)
ZJ7403 K9ZZ00000424 (VJR0978)
ZJ7404 K9ZZ00000424 (VJR0978)

(V) GPYOUT DM
(V) BPBOUT DM
(V) RPROUT DM
(V) YOUT DM
(V) COUT DM
(V) V YIN DM
(V) CPNCIN DM

TO PS9001
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9701

1	DGND	
2		
3		
4		
5		
6	DGND	
7	RGB CPSVIN	
8	DGND	
9	B IN	
10	DGND	
11	G IN	
12	DGND	
13	R IN	
14	DGND	
15	GPYOUT DM	
16	BPBOUT DM	
17	DGND	
18	RPROUT DM	
19	DGND	
20	YOUT DM	
21	DGND	
22	COUT DM	
23	DGND	
24		
25		
26		
27	DGND	
28	V YIN DM	
29	DGND	
30	CPNCIN DM	

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

B

DU7402
ENG47327G1:E100HEG
ENG47328G1:E100HEB

BOOSTER+B, AUDIO IN, MSDA, REG5V, MSCL, VIDEO IN, NC, -, -, NC, SCL, SDA, NC, REG5V, SW1OUT, BTL 30V, IF OUT, IF IN, SW1IN, SW2IN, AUDIO OUT, SIF OUT, AFC OUT, VIDEO OUT, VIF 5V, GND, GND

C7417 6V47
C7428 0.01
LB7402 J0JHC0000032
C7413 6V47
C7422 0.01
LB7403 J0JHC0000032
E100HEG
C7423 0
E100HEB
L7402 27u
R7410 10
C7410 0.01
C7409 0.01
C7418 33P
R7415 470
R7416 470
C7419 33P
LB7404 J0JHC0000032
C7420 0.1
C7424 6V47
D7402 MAZ4300NMF
C7421 0.01
C7414 50V1
R7417 470
R7411 470
TL7401
AFC
R7420 150
LB7405 J0JHC0000032
C7415 6V47
C7426 0.1
L7403 2.2u

NICAM/DECODER PACK
PK7701
1 SIF
2 GND
3 TU AUDO IN
4 —
5 —
6 —
7 JC 5V

UNREG 38V
JC REG5V
LB7406 J0JHC0000032
C7408 0.1
R7412 680
C7416 6V47
C7427 2200P

PK7702
1 SCL
2 SDA
3 —
4 TU AUDIO(R)
5 GND
6 TU AUDIO(L)

E100HEB
K7403
R7409 270
LB7401 J0JCC0000120
RFC A OUT
QR7406 UNR211500L (MUTE)
RFC A MUTE
QR7407 UNR211500L (MUTE)
C7429 3300P:E100HEB 0.1:E100HEG
E100HEB
R7423 5600
R7414 100
R7413 100
Q7402 2SB1218A0L (AMP)
R7419 150

TUNER L
TUNER R
IIC CLK
IIC DATA
R7421 100
R7422 100

TO PS3901
SCART P.C.B.
PP7401
20 R/C OUT
19 GND
18 G OUT
17 GND
16 B OUT
15 GND
14 PS 12V
13 GND
12 CPN Y OUT
11 GND
10 CPS V OUT
9 GND
8 SCART V IN
7 GND
6 TUNER VIDEO
5 PS 5V
4 BOOSTER+5V
3 PROG H
2 IIC DATA
1 IIC CLK

PROG H
CPS V OUT
R/C OUT
G OUT
B OUT
CPN Y OUT
SCART VIN
PS 5V

Q7405 2SD601A0L (AMP)
R7431 33K
C7432 6V47
R7430 1K
R7432 22K
Q7406 2SD601A0L (AMP)
R7434 33K
C7433 6V47
R7433 1K
R7435 22K
C7441 0.1
C7440 6V47
LB7407 J0JHC0000032
Q7403 2SD601A0L (AMP)
R7425 33K
C7430 6V47
R7424 1K
R7426 22K
Q7404 2SD601A0L (AMP)
R7428 33K
C7431 6V47
R7427 1K
R7429 22K

TO PS3902
SCART P.C.B.
PP7402
12 —
11 —
10 P50
9 AV2 8
8 GND
7 B IN
6 GND
5 G IN
4 GND
3 R/C IN
2 GND
1 AV2 V IN

P50
B IN
G IN
R/C IN

TO PS3903
SCART P.C.B.
PP7403
15 GND
14 MIX L OUT
13 GND
12 NIX R OUT
11 GND
10 DECODER L
9 GND
8 DECODER R
7 GND
6 L3 IN L
5 GND
4 L3 IN R
3 GND
2 AUDIO MUTE
1 PWR SAVE H

MIX L OUT1
MIX R OUT1
DECODER L
DECODER R
L3 IN L
L3 IN R
AUDIO MUTE
PWR SAVE H

DMR-E100H EB/EG
Main Net Section(Main P.C.B.(2/5)) Schematic Diagram(M)

DMR-E100H EB/EG
Main Net Section(Main P.C.B.(2/5)) Schematic Diagram(M)

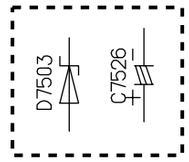
12 13 14 15 16 17 18 19 20 21 22

MAIN P.C.B.

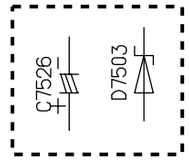
Integrated Circuit		QR7501	C-3	LB3014	B-6	C3037	E-6	C4091	F-1	C7558	B-3	R3049	D-6	R4090	F-2	R7547	B-4
IC1501	B-7	QR7503	C-3	LB3015	B-7	C3038	E-6	C4092	E-3	C7559	C-4	R3050	D-6	R4093	F-2	R7548	B-3
IC1502	C-5	**Test Point**		LB3016	E-7	C3039	E-6	C7401	F-5	C7560	C-4	R3051	D-6	R4099	F-1	R7549	B-3
IC1503	B-5	TL3001	B-5	LB4001	F-1	C3040	E-6	C7402	F-5	C7561	C-4	R3052	E-6	R7401	F-6	R7550	B-4
IC1504	D-3	TL7401	B-7	LB7401	F-7	C3041	E-6	C7403	F-7	C7562	C-4	R3056	E-6	R7402	F-5	R7551	B-4
IC1505	D-2	TL7501	A-4	LB7402	F-7	C3042	E-7	C7404	F-7	C7563	C-4	R3057	E-6	R7403	F-5	R7552	B-4
IC1509	D-2	TL7502	A-2	LB7403	F-7	C3043	E-7	C7405	F-7	C7564	C-4	R3058	E-7	R7404	F-5	R7553	B-3
IC1513	E-5	TL7503	B-3	LB7404	E-7	C3044	F-7	C7406	F-6	C7565	C-2	R3059	D-6	R7405	F-5	R7554	B-3
IC3001	C-6	TL7504	B-3	LB7405	D-7	C3045	F-6	C7407	F-7	C7566	C-3	R3060	D-6	R7406	F-5	R7555	B-3
IC3002	E-6	TL7505	C-4	LB7406	C-8	C3046	F-6	C7408	C-8	C7567	B-3	R3062	B-6	R7407	F-5	R7556	B-3
IC3003	E-6	TL7506	C-3	LB7407	E-7	C3047	F-6	C7409	F-7	C7568	B-3	R3063	D-6	R7408	F-5	R7557	B-4
IC3004	E-6	TL7507	C-3	LB7501	A-3	C3048	E-6	C7410	F-7	C7570	C-2	R3064	D-6	R7409	F-7	R7558	B-4
IC4001	E-4	TL7508	C-3	LB7502	A-3	C3049	E-6	C7413	F-8	C7571	C-3	R3065	E-6	R7410	F-7	R7559	C-4
IC4005	F-1	TL7509	C-3	LB7503	A-2	C3050	E-6	C7414	E-8	C7572	C-2	R3066	E-6	R7411	C-8	R7560	C-4
IC4006	F-1	TL7510	C-3	LB7504	A-6	C3051	F-6	C7415	D-7	C7573	C-2	R3068	D-6	R7412	E-7	R7561	C-4
IC4007	F-1	TL7511	C-3	LB7505	B-3	C3052	E-7	C7416	C-8	C7575	A-7	R3069	D-6	R7413	F-8	R7562	C-4
IC4009	E-2	TL7513	C-3	LB7506	B-3	C3053	E-7	C7417	F-8	C7576	A-7	R3070	E-7	R7414	F-8	R7563	C-4
IC4010	E-2	TL7514	C-3	LB7507	C-2	C3054	F-3	C7418	E-8	C7577	B-2	R3071	E-7	R7415	E-8	R7564	C-4
IC4011	E-2	TL7515	C-3	LB7508	B-1	C3056	F-2	C7419	E-8	C7578	B-4	R3072	E-7	R7416	E-8	R7565	C-4
IC4012	E-2	TL7516	C-3	LB7509	B-4	C3058	F-2	C7420	E-7	C7579	C-4	R3073	E-7	R7417	C-8	R7566	C-4
IC4013	E-2	TL7517	C-3	LB7510	C-3	C3059	F-3	C7421	E-8	C7580	C-2	R3074	E-7	R7419	E-7	R7567	C-4
IC7401	F-5	TL7518	B-8	LB7511	C-2	C3060	F-1	C7422	F-8	C7581	B-2	R3075	E-7	R7420	E-7	R7568	C-3
IC7402	F-7	TL7519	A-8	LB7512	C-4	C3061	F-2	C7423	F-8	C7582	B-1	R3076	E-6	R7421	B-8	R7569	C-3
IC7403	F-6	TL7520	A-5	LB7519	B-1	C3064	C-6	C7424	E-8	C7583	C-1	R3077	E-7	R7422	B-8	R7570	C-3
IC7501	A-3	TL7521	C-3	LB7520	F-1	C3065	C-6	C7426	D-8	C7584	B-8	R3078	F-3	R7423	F-7	R7571	C-3
IC7502	C-3	TL7522	C-4	LB7521	E-1	C3066	B-6	C7427	C-8	C7585	D-2	R3079	F-3	R7424	C-7	R7572	C-2
IC7503	C-2	TL7523	C-3	LB7522	E-1	C3067	B-6	C7428	F-8	C7586	D-1	R3080	F-2	R7425	C-7	R7573	B-2
IC7504	C-2	TW7501	B-1	LB9704	C-5	C3068	C-6	C7429	F-7	C7587	D-1	R3081	F-2	R7426	C-7	R7574	C-4
IC7505	C-2	**Connector**		**Filter**		C3069	B-6	C7430	C-7	C7589	C-4	R3082	F-3	R7427	C-7	R7575	B-2
IC7506	A-8	JK3001	F-2	FL3003	D-6	C4001	E-3	C7431	C-7	C7590	D-4	R3083	F-2	R7428	C-7	R7576	B-2
IC7507	D-2	P7501	A-7	FL3004	E-6	C4002	E-3	C7432	C-7	C7593	B-3	R3084	E-7	R7429	C-7	R7577	B-3
IC7508	B-3	P7504	E-1	FL3005	D-7	C4003	E-3	C7433	D-7	C7594	B-4	R3085	D-6	R7430	C-7	R7578	C-2
Transistor		PP1501	C-1	FL3006	D-6	C4004	E-4	C7439	F-5	C7595	B-4	R3086	D-6	R7431	C-7	R7579	C-3
Q3005	C-6	PP1503	B-1	FL3007	D-6	C4005	E-3	C7440	E-7	C7599	C-2	R3089	D-6	R7432	C-7	R7580	C-2
Q3007	D-6	PP3001	D-7	**Capacitor**		C4006	E-4	C7441	C-7	C7600	B-3	R3090	C-6	R7433	D-7	R7581	C-2
Q3008	E-6	PP3002	E-7	C1502	D-1	C4007	E-4	C7501	A-4	C7601	B-4	R3093	B-6	R7434	D-7	R7582	C-3
Q3009	E-7	PP7401	F-7	C1503	C-1	C4008	E-3	C7502	A-4	C7603	C-3	R4001	E-4	R7435	D-7	R7590	A-7
Q3010	D-6	PP7402	F-6	C1504	C-1	C4010	E-4	C7503	A-4	C7604	C-3	R4002	D-3	R7501	A-4	R7591	A-7
Q3011	D-6	PP7403	F-4	C1505	C-1	C4011	E-4	C7504	A-4	C7605	C-2	R4003	E-3	R7502	A-4	R7592	B-2
Q3012	C-6	PP9701	C-7	C1506	D-1	C4012	E-4	C7505	A-4	C7606	C-2	R4004	D-2	R7503	A-4	R7593	B-3
Q3013	B-6	PP9702	C-5	C1508	C-5	C4013	E-3	C7506	A-4	C7607	A-8	R4005	E-4	R7504	A-4	R7594	B-3
Q3014	D-6	PP9703	B-5	C1509	C-7	C4014	E-4	C7507	A-4	C7608	C-3	R4006	E-3	R7505	A-7	R7595	C-3
Q4004	D-2	**Diode**		C1510	B-5	C4015	E-3	C7508	A-4	C7609	C-2	R4007	E-3	R7506	C-2	R7596	C-3
Q4006	F-2	D3001	C-6	C1511	C-5	C4017	E-4	C7509	C-2	C7610	C-4	R4008	E-4	R7507	C-2	R7598	B-1
Q4007	F-2	D4001	D-2	C1512	D-4	C4018	E-4	C7512	A-3	C7611	A-6	R4009	E-3	R7508	B-3	R7599	B-8
Q4008	E-3	D4005	E-2	C1514	D-2	C4019	E-4	C7513	B-3	C7612	A-6	R4010	E-4	R7509	A-2	R7600	E-1
Q4009	E-3	D4006	E-3	C1518	D-1	C4020	E-4	C7515	A-3	C9935	E-3	R4011	E-4	R7510	B-1	R7601	E-2
Q7401	F-5	D7401	F-5	C1528	E-5	C4021	E-4	C7516	B-2	C9936	E-3	R4012	E-3	R7511	A-2	R7602	E-2
Q7402	E-7	D7402	E-8	C1530	E-5	C4022	E-4	C7517	B-2	**Resistor**		R4013	E-4	R7512	A-1	R7604	C-3
Q7403	C-7	D7403	F-5	C1531	C-2	C4023	B-7	C7518	B-2	R1501	C-5	R4014	D-3	R7513	A-2	R7605	C-4
Q7404	C-7	D7501	B-1	C1532	C-5	C4024	E-4	C7521	B-1	R1502	C-5	R4015	E-4	R7514	A-1	R7607	B-5
Q7405	C-7	D7502	B-1	C3001	B-6	C4025	B-7	C7522	A-2	R1515	C-2	R4016	E-4	R7515	A-2	R7617	C-4
Q7406	D-7	D7503	A-1	C3005	C-6	C4026	F-2	C7523	B-1	R3001	C-6	R4017	D-2	R7516	A-2	R7618	C-4
Q7501	A-4	D7504	A-2	C3006	B-5	C4027	E-4	C7524	A-1	R3002	C-6	R4019	B-7	R7517	A-6	R7619	C-3
Q7502	A-4	D7505	B-2	C3007	C-6	C4028	E-4	C7525	A-1	R3003	C-6	R4020	B-7	R7518	A-6	R7620	C-3
Q7503	A-2	D7506	A-2	C3008	C-6	C4029	F-1	C7526	A-1	R3004	C-6	R4021	E-4	R7519	C-3	R7621	C-3
Q7504	A-2	D7507	B-4	C3009	C-6	C4030	E-1	C7527	A-2	R3005	B-6	R4022	B-7	R7520	A-6	R7622	C-2
Q7505	A-6	D7512	B-1	C3010	D-6	C4031	B-7	C7528	B-1	R3006	B-6	R4023	E-4	R7521	A-6	R7623	C-3
Q7506	A-6	D7513	C-1	C3011	D-6	C4033	E-3	C7529	B-1	R3019	B-6	R4024	F-2	R7522	A-6	R7624	C-3
Q7507	A-6	**Crystal Osillator**		C3012	B-6	C4034	E-3	C7532	C-1	R3020	C-6	R4027	E-2	R7523	A-6	R7625	D-3
Q7508	A-6	X7501	B-2	C3013	B-6	C4052	E-2	C7533	A-6	R3021	B-6	R4030	F-2	R7524	A-6	R7626	A-4
Q7509	B-2	X7502	B-3	C3014	C-5	C4053	F-1	C7535	A-6	R3022	D-7	R4039	E-3	R7525	A-6	**Transformer**	
Q7510	B-3	X7503	B-4	C3016	D-5	C4054	F-1	C7536	A-6	R3023	D-6	R4040	E-3	R7526	B-2	T7501	B-2
Q7511	B-4	**IC Protector**		C3017	C-5	C4055	E-2	C7537	A-6	R3024	D-6	R4044	E-3	R7527	B-2		
Q7512	B-4	IP4001	F-1	C3018	E-7	C4056	E-2	C7538	A-5	R3025	C-6	R4045	E-3	R7528	B-3		
Q7513	B-4	IP7501	B-1	C3019	C-6	C4057	E-2	C7539	B-2	R3026	C-6	R4046	E-3	R7529	B-2		
Q7515	E-1	**Coil**		C3020	E-7	C4059	E-2	C7540	B-2	R3027	E-6	R4047	E-3	R7530	B-3		
Transistor-resistor		L3006	E-6	C3021	C-5	C4060	E-2	C7541	B-2	R3031	D-6	R4055	E-2	R7531	A-7		
QR4001	E-2	L3007	E-6	C3022	B-6	C4061	E-3	C7542	C-2	R3032	E-6	R4057	E-2	R7532	C-3		
QR4002	D-3	L4002	F-1	C3023	C-6	C4062	E-2	C7543	B-3	R3034	B-6	R4066	E-2	R7533	B-8		
QR4003	D-3	L7402	F-7	C3024	D-6	C4063	E-2	C7544	B-3	R3035	D-6	R4067	E-2	R7534	B-8		
QR4004	D-3	L7403	D-8	C3025	C-6	C4064	E-2	C7545	B-3	R3036	C-6	R4070	F-1	R7535	B-5		
QR4005	D-3	LB1501	C-1	C3026	C-6	C4065	E-3	C7546	B-4	R3037	D-6	R4071	E-3	R7536	B-4		
QR4006	E-2	LB1502	C-1	C3027	B-6	C4067	F-1	C7547	C-4	R3038	D-7	R4074	E-3	R7537	B-4		
QR4007	E-2	LB1503	C-1	C3028	C-7	C4069	F-1	C7548	B-8	R3039	D-6	R4076	E-3	R7538	B-4		
QR4012	D-2	LB1504	C-1	C3029	B-7	C4070	E-2	C7549	A-8	R3040	D-6	R4077	E-3	R7539	B-4		
QR7401	F-5	LB1505	C-1	C3030	D-6	C4072	E-2	C7551	B-4	R3041	E-6	R4078	F-2	R7540	B-4		
QR7402	F-5	LB3001	F-2	C3031	D-6	C4074	E-2	C7552	B-4	R3042	D-6	R4079	E-2	R7541	B-4		
QR7403	F-5	LB3002	F-2	C3032	E-6	C4075	E-2	C7553	B-3	R3043	E-6	R4080	E-3	R7542	B-4		
QR7404	F-5	LB3003	F-2	C3033	E-6	C4076	E-2	C7554	B-3	R3045	B-6	R4081	E-2	R7543	B-4		
QR7405	F-5	LB3004	F-2	C3034	E-6	C4077	E-2	C7555	B-4	R3046	B-6	R4087	F-1	R7544	B-3		
QR7406	F-7	LB3012	E-6	C3035	E-6	C4082	F-3	C7556	B-3	R3047	B-6	R4088	E-3	R7545	B-5		
QR7407	F-7	LB3013	E-7	C3036	E-6	C4083	F-2	C7557	B-4	R3048	D-7	R4089	E-3	R7546	B-5		

Note 1:
To improve productivity,
C7526 and D7503 are inserted
in contrary position as running
change.

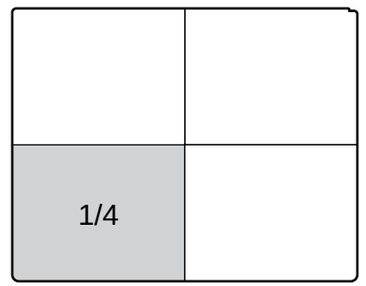
a) Case of original



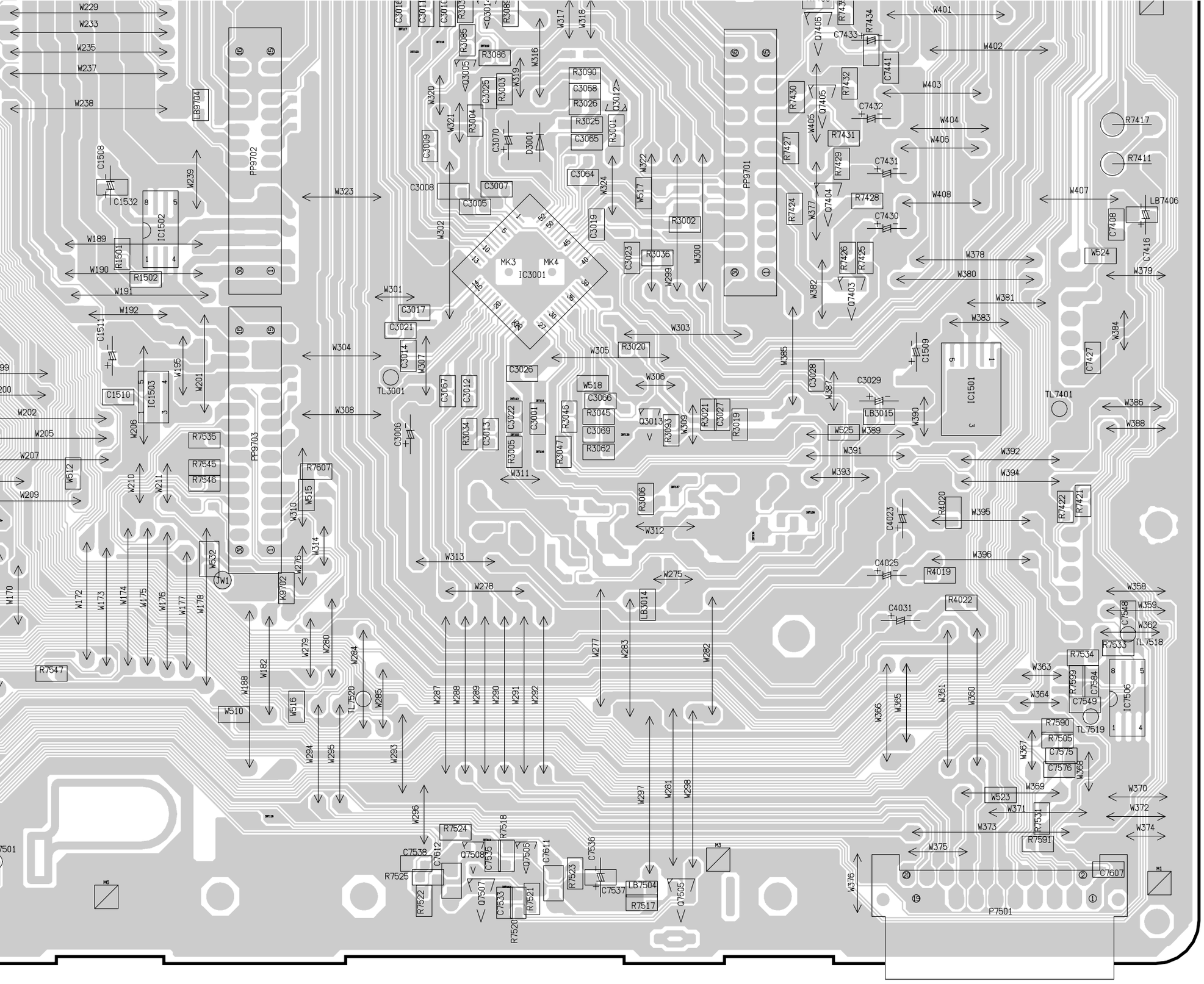
b) Case after running change.



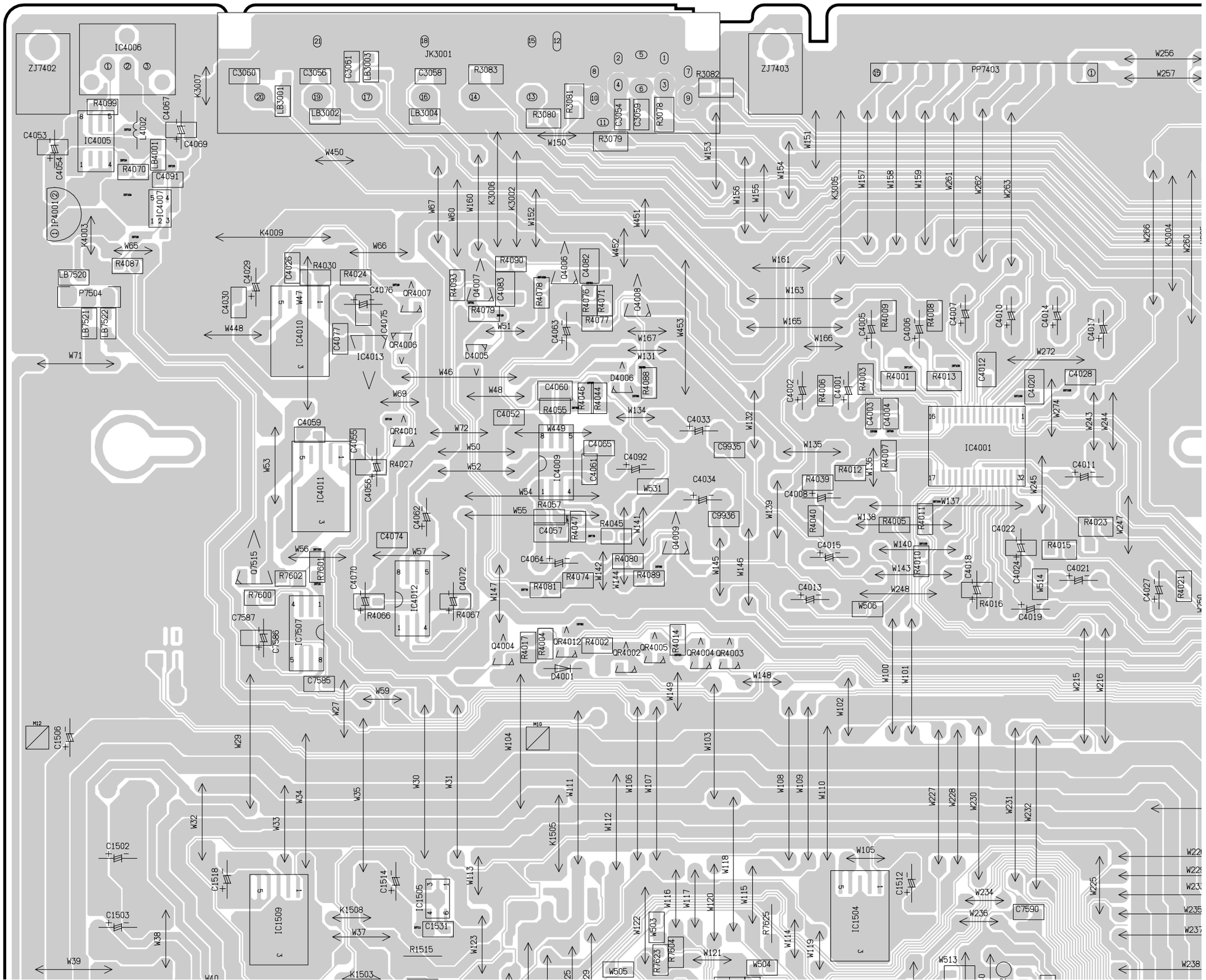
Location Map

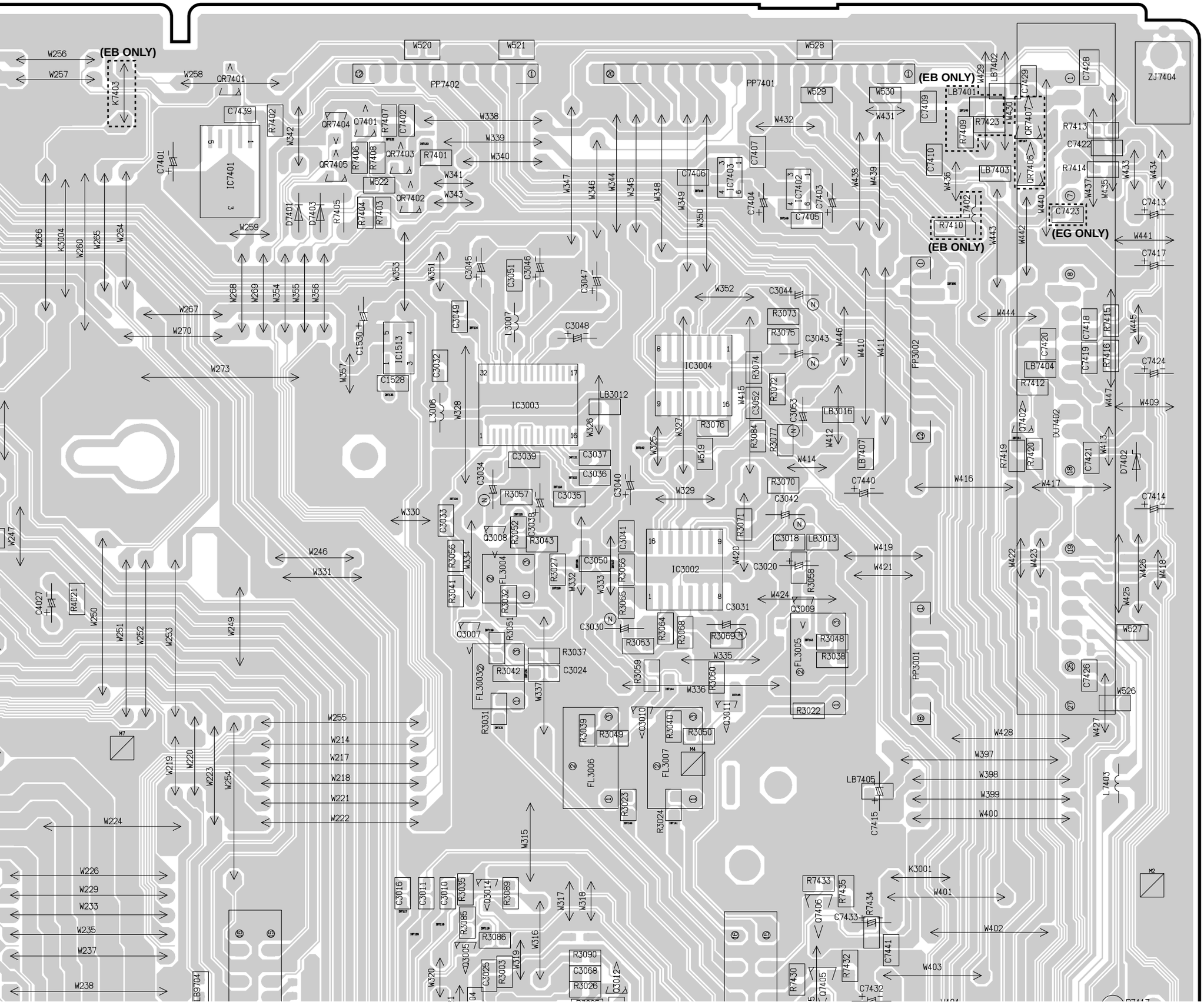


Main P.C.B. (1/4 Section)
DMR-E100HEB (REP3532G)
DMR-E100HEG (REP3532F)

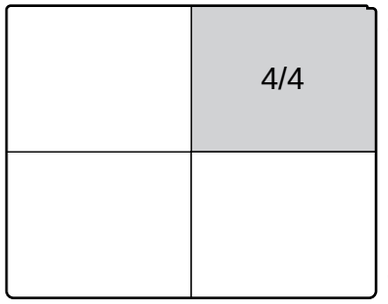

IC3001
MK3
MK4
IC1501
IC1502
IC1503
IC7506
PP9701
PP9702
PP9703
K9702
P7501
JW1
TL3001
TL7401
TL7501
TL7518
TL7519
TL7520
LB3014
LB3015
LB7406
LB7504
LB7517
LB9704
Q3013
Q7403
Q7404
Q7405
Q7406
Q7507
Q7508
Q7506
W229
W233
W235
W237
W238
W239
W189
W190
W191
W192
W195
W196
W201
W202
W205
W206
W207
W209
W210
W211
W512
W170
W172
W173
W174
W175
W176
W177
W178
W188
W182
W532
W510
W515
W516
W276
W314
W310
W313
W278
W275
W279
W280
W284
W285
W287
W288
W289
W290
W291
W292
W293
W294
W295
W296
W277
W283
W282
W297
W281
W298
W323
W301
W304
W308
W302
W303
W305
W306
W518
W307
W311
W312
W316
W317
W318
W319
W320
W321
W322
W517
W324
W299
W300
W377
W382
W385
W387
W390
W525
W389
W391
W393
W392
W394
W395
W396
W401
W402
W403
W404
W406
W408
W407
W524
W378
W380
W379
W381
W383
W384
W386
W388
W358
W359
W362
W363
W364
W366
W365
W361
W360
W367
W368
W369
W523
W371
W370
W372
W373
W374
W375
W376
C1508
C1532
C1511
C1510
C3006
C3007
C3008
C3005
C3009
C3070
C3001
C3064
C3019
C3023
C3036
C3002
C3017
C3021
C3014
C3067
C3012
C3026
C3022
C3013
C3066
C3045
C3069
C3062
C3046
C3047
C3034
C3005
C3025
C3003
C3004
C3090
C3068
C3026
C3025
C3065
C3012
C3001
R1501
R1502
R7535
R7545
R7546
R7547
R7607
R7538
R7612
R7524
R7525
R7522
R7508
R7535
R7518
R7507
R7533
R7521
R7520
R7523
R7537
R7517
R7505
R7536
R7611
R3085
R3086
R3090
R3026
R3025
R3001
R3004
R3003
R3002
R3036
R3020
R3021
R3027
R3019
R3093
R3006
R4020
R4019
R4022
R4023
R4025
R4031
C7433
C7432
C7431
C7430
C7441
C7427
C7408
C7416
C7607
C7548
C7549
C7584
C7575
C7576
C7590
R7430
R7432
R7431
R7427
R7429
R7424
R7428
R7426
R7425
R7434
R7417
R7411
R7422
R7421
R7533
R7534
R7539
R7590
R7505
R7531
R7591
C1509
C3028
C3029
C7536
C7537
C7538
C7611
C7612
C7535
C7506
C7507
C7533
C7521
C7523

MAIN P.C.B.


ZJ7402
IC4006
R4099
C4067
K3007
C4053
C4054
IC4005
L4002
C4069
LB4001
R4070
C4091
IP4001
IC4007
K4003
W65
R4087
LB7520
P7504
LB7521
LB7522
K4009
W66
C4029
C4026
R4030
R4024
C4030
C4076
QR4007
W448
IC4010
W47
C4075
C4077
QR4006
IC4013
W71
W46
W48
W69
C4059
QR4001
W72
W50
W52
W53
C4055
R4027
C4056
IC4011
C4060
R4046
R4044
R4055
C4052
W449
C4065
C4061
IC4009
C4092
W531
C4034
W54
R4057
W55
C4057
R4047
R4045
W141
C4062
C4074
W56
W57
Q7515
R7602
R7601
R7600
C4070
R4066
IC4012
C4072
R4067
C7587
C7586
IC7507
C7585
W147
C4064
R4080
R4074
R4089
W142
W144
R4081
Q4004
R4017
R4004
QR4012
R4002
QR4002
QR4005
QR4004
QR4003
R4014
D4001
W148
W149
W59
W27
W29
C1506
W104
W451
W452
W453
W51
D4005
C4063
W167
W131
D4006
R4088
C4033
C9935
W132
W135
C4008
R4039
R4012
W136
R4007
C4034
C9936
W139
W138
R4005
R4040
R4011
W137
C4015
W140
R4010
W143
W248
W506
C4013
C4018
R4016
C4022
R4015
C4024
C4019
W514
C4021
R4023
W247
C4027
R4021
W245
C4011
W274
W243
W244
W272
C4028
C4020
C4012
C4017
C4010
C4014
C4007
R4008
C4006
R4009
C4005
W161
W163
W165
W166
C4002
R4006
C4001
R4003
R4001
R4013
C4003
C4004
IC4001
W256
W257
PP7403
ZJ7403
R3082
R3083
R3081
R3080
R3079
R3078
C3054
C3059
W150
W153
W151
W154
W155
W156
W157
W158
W159
W261
W262
W263
K3005
W266
K3004
W260
K3006
K3002
W152
W160
W67
W60
LB3001
LB3002
LB3003
LB3004
C3060
C3056
C3061
C3058
JK3001
W450
W161
W162
W163
W164
W165
W166
W167
W168
W169
W170
W171
W172
W173
W174
W175
W176
W177
W178
W179
W180
W181
W182
W183
W184
W185
W186
W187
W188
W189
W190
W191
W192
W193
W194
W195
W196
W197
W198
W199
W200



Location Map



Main P.C.B. (4/4 Section)
DMR-E100HEB (REP3532G)
DMR-E100HEG (REP3532F)

Ref No.	IC1501						IC1502									IC1503				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	4.7	5.6	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.8		1.2	0	3.3	3.3	1.8
PLAY	4.7	5.6	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.9		1.2	0	3.4	3.4	1.8
STOP	4.7	5.6	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.9	1.9		1.2	0	3.4	3.4	1.8

Ref No.	IC1504						IC1505							IC1509						
MODE	1	2	3	4	5		1	2	3	4	5	6		1	2	3	4	5		
REC	4.5	5.0	0	3.3	3.3		5.7	0	4.5	1.2	0	5.0		4.5	3.4	0	2.5	2.5		
PLAY	4.5	5.0	0	3.3	3.3		5.7	0	4.5	1.2	0	5.0		4.5	3.4	0	2.5	2.5		
STOP	4.5	5.0	0	3.3	3.3		5.7	0	4.5	1.2	0	5.0		4.5	3.4	0	2.5	2.5		

Ref No.	IC1513				
MODE	1	2	3	4	5
REC	1.2	0	4.5	5.6	4.9
PLAY	1.2	0	4.5	5.6	4.9
STOP	1.2	0	4.5	5.6	4.9

Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
PLAY	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
STOP	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8

Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
PLAY	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
STOP	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0

Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.8	0.8	1.8	2.2								
PLAY	5.0	2.0	0	1.7	5.0	0.2	2.1	2.3	1.8	0.8	1.8	2.2								
STOP	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.7	0.8	1.8	2.2								

Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
PLAY	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
STOP	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				

Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0

Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.3								
PLAY	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.3								
STOP	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.3								

Ref No.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
PLAY	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
STOP	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				

Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.4	4.4	4.4	3.4	4.5	4.5	4.5	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	2.6	0	2.6	0	4.4
PLAY	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	2.6	0	2.6	0	4.4
STOP	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	2.6	0	2.6	0	4.4

Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
PLAY	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
STOP	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								

Ref No.	IC4005								IC4006				IC4007					
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5
REC	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0
STOP	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0

Ref No.	IC4009									IC4010						IC4011				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		13.9	8.9	12.0	-	0		5.7	4.1	5.0	-	0
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		13.9	8.9	12.0	-	0		5.7	4.1	5.0	-	0
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		13.9	8.9	12.0	-	0		5.7	4.1	5.0	-	0

Ref No.	IC4012								IC4013				IC7401					
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		13.9	3.9	12.0	-	0
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		13.9	3.9	12.0	-	0
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		13.9	3.9	12.0	-	0

Ref No.	IC7402							IC7403												
MODE	1	2	3	4	5	6		1	2	3	4	5	6							
REC	5.6	0	5.6	1.2	0	5.0		5.6	0	3.9	1.2	0	5.0							
PLAY	5.6	0	5.6	1.2	0	5.0		5.6	0	3.9	1.2	0	5.0							
STOP	5.6	0	5.6	1.2	0	5.0		5.6	0	3.9	1.2	0	5.0							

Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-28.8	-28.8	-28.7	-26.0	-26.4	-26.4	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
PLAY	-28.9	-28.8	-28.8	-26.0	-26.5	-26.5	-26.0	-26.0	-26.1	-26.1	-26.0	-26.1	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
STOP	-28.8	-28.8	-28.8	-26.0	-26.4	-26.4	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3

Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-28.9	-28.8	-28.8	-23.2	-26.0	-20.5	-28.8	-23.2	-26.1	-29.5	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-20.4	-17.6
PLAY	2.3	0	-28.9	-28.9	-28.9	-20.5	-26.1	-20.5	-28.9	-26.1	-26.1	-29.6	-26.0	-23.2	-26.1	-26.0	-28.9	-26.0	-20.4	-20.4
STOP	2.3	0	-28.8	-28.8	-28.8	-28.9	-26.0	-23.2	-28.8	-26.0	-26.0	-29.5	-26.0	-23.2	-26.0	-26.0	-26.0	-26.0	-23.2	-20.4

Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-14.8	-14.8	-20.5	-23.3	-20.5	-20.5	-17.6	-17.7	-14.8	-20.5	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-20.4	-26.1	-23.3	5.0
PLAY	-23.2	-23.2	-20.5	-20.5	-23.3	-20.5	-17.6	-23.3	-20.4	-17.6	-26.1	-28.9	-28.9	-23.2	-26.1	-28.9	-20.4	-14.7	-26.1	5.0
STOP	-20.4	-17.6	-23.3	-17.7	-23.3	-17.7	-20.4	-17.6	-20.4	-14.8	-26.1	-26.1	-26.1	-26.0	-26.0	-26.0	-23.2	-20.3	-26.0	5.0

Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-28.9	-28.9	-28.9	-28.9																
PLAY	-28.9	-28.9	-28.9	-28.9																
STOP	-28.8	-28.8	-28.8	-28.8																

Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.7	1.7	4.7	0	0	0	0	0	1.4	1.1	4.8	2.2	0	2.2	4.7	4.7	5.0	5.0	0.3	4.7
PLAY	4.7	1.7	4.7	0	0	0	0	0	1.4	1.1	4.8	2.2	0	2.2	4.7	4.7	5.0	5.0	0.3	4.7
STOP	4.7	1.7	4.7	0	0	0	0	0	1.4	1.1	4.8	2.2	0	2.2	4.7	4.7	5.0	5.0	0.3	4.7

Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	0	0	0	0	4.3	4.1	0	1.7	1.4	1.4	4.7	0	0	0.3	5.0	5.0	4.7
PLAY	0	0	0	0	0	0	0	4.3	4.1	0	1.7	1.4	1.4	4.7	0	0	0.3	5.0	5.0	4.7
STOP	0	0	0	0	0	0	0	4.3	4.1	0	1.7	1.4	1.4	4.7	4.8	0	0.3	0.2	5.0	4.7
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.6	2.6	4.4	0	4.7	0	0	0	0	0	4.7	4.7	4.7	0	4.7	4.7	0	0	0.1
PLAY	0	2.6	2.6	4.4	0	4.7	0	0	0	0	0	4.7	4.7	4.7	0	4.7	4.7	0	0	0.1
STOP	0	2.6	2.6	4.4	0	4.7	0	0	0	0	0	4.7	4.7	4.7	0	4.7	4.7	0	0	0.1
Ref No.	IC7502																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0.1	4.7	4.7	2.4	0	0	0	0	4.7	4.7	0	0	0	0	0	0	4.7	4.7	0	4.7
PLAY	0.1	4.7	4.7	2.4	0	0	0	0	4.7	4.7	0	0	0	0	0	0	4.7	0	0	4.7
STOP	0.1	4.7	4.7	2.4	0	0	0	0	4.7	4.7	0	0	0	0	0	0	4.7	0	0	4.7
Ref No.	IC7502																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	4.9	4.7	4.7	4.7	0	0	4.6	4.7	0	0	0	1.9	5.0	4.9	4.7	4.7	0	0	2.3
PLAY	0	4.9	4.7	4.7	4.7	0	0	4.6	4.7	0	0	0	1.9	5.0	4.9	4.7	4.7	4.9	0	2.3
STOP	0	5.0	4.7	4.7	4.7	0	0	4.6	4.7	0	0	0	4.8	5.0	5.0	4.7	4.7	0	0	2.3
Ref No.	IC7502																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	2.6	0	4.7	4.7	4.7	5.0	4.7	2.0	1.3	0	4.7	2.0	0	2.2	5.0				
PLAY	0	2.6	0	4.7	4.7	4.7	5.0	4.7	2.0	1.3	0	4.7	2.0	0	2.2	5.0				
STOP	0	2.6	0	4.7	4.7	4.7	5.0	4.7	2.0	1.3	0	4.7	2.0	0	2.2	5.0				
Ref No.	IC7503						IC7504						IC7505							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
REC	1.2	0	4.6	5.7	5.0		4.7	5.0	0	-	-		2.2	3.4	0	-	-			
PLAY	1.2	0	4.6	5.7	5.0		4.7	5.0	0	-	-		2.2	3.4	0	-	-			
STOP	1.2	0	4.6	5.7	5.0		4.7	5.0	0	-	-		2.2	3.4	0	-	-			
Ref No.	IC7506									IC7507										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	0	0	0	0	4.1	4.3	4.7	4.7		5.6	1.7	1.7	0	1.7	1.7	1.7	13.9			
PLAY	0	0	0	0	4.1	4.3	4.7	4.7		5.6	1.7	1.7	0	1.7	1.7	1.7	12.0			
STOP	0	0	0	0	4.2	4.3	4.7	4.7		5.6	1.7	1.7	0	1.7	1.7	1.7	12.0			
Ref No.	IC7508																			
MODE	1	2	3	4	5															
REC	0	0	-	4.7	4.7															
PLAY	0	0	-	4.7	4.7															
STOP	0	0	-	4.7	4.7															
Ref No.	Q3005				Q3007				Q3008				Q3009				Q3010			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.5	0	0.9		1.5	0	0.9	
PLAY	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.5	0	0.9		1.5	0	0.9	
STOP	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.5	0	0.9		1.5	0	0.9	
Ref No.	Q3011				Q3012				Q3013				Q3014							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	1.5	0	0.9		1.7	0	1.1		1.8	0	1.2		2.2	0	1.6					
PLAY	1.5	0	0.9		1.7	0	1.1		1.8	0	1.2		2.2	0	1.6					
STOP	1.5	0	0.9		1.7	0	1.1		1.8	0	1.2		2.2	0	1.6					
Ref No.	Q4004				Q4006				Q4007				Q4008				Q4009			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	5.0	-0.9	5.0		0	0	-0.5		0	0	-0.5		0	0	-0.4		0	0	-0.4	
PLAY	5.0	-0.9	5.0		0	0	-0.1		0	0	-0.9		0	0	-0.8		0	0	-1.0	
STOP	5.0	-0.9	5.0		0	0	-0.6		0	0	-0.5		0	0	-0.6		0	0	-0.5	
Ref No.	Q7401				Q7402				Q7403				Q7404				Q7405			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	12.0	0		2.0	0	1.3		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9	
PLAY	0	12.0	0		2.0	0	1.3		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9	
STOP	0	12.0	0		2.0	0	1.3		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9	
Ref No.	Q7406				Q7501				Q7502				Q7503				Q7504			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.3	5.0	1.9		-26.4	5.0	-26.3		-26.4	5.0	-26.3		0	4.3	-1.1		0	-1.1	-1.1	
PLAY	1.3	5.0	1.9		-26.4	5.0	-26.3		-26.4	5.0	-26.3		0	4.3	-1.1		0	-1.1	-1.1	
STOP	1.3	5.0	1.9		-26.4	5.0	-26.3		-26.4	5.0	-26.3		0	4.3	-1.1		0	-1.1	-1.1	
Ref No.	Q7505				Q7506				Q7507				Q7508				Q7509			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.4	4.7	3.6	
PLAY	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.4	4.7	3.6	
STOP	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.4	4.7	3.7	
Ref No.	Q7510				Q7511				Q7512				Q7513				Q7515			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		1	2	3	
REC	1.6	0	1.0		0	5.0	0		0	0	0.6		0	4.4	0		5.6	13.9	5.0	
PLAY	1.6	0	1.0		0	5.0	0		0	0	0.6		0	4.4	0		5.6	13.9	5.0	
STOP	1.6	0	1.0		0	5.0	0		0	0	0.6		0	4.4	0		5.6	13.9	5.0	
Ref No.	QR4001				QR4002				QR4003				QR4004				QR4005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	4.1	0		0	0	4.7		0	0	2.3		0	5.0	0		0	5.0	0	
PLAY	0	4.1	0		0	0	4.7		0	0	2.3		0	5.0	0		0	5.0	0	
STOP	0	4.1	0		0	0	4.7		0	0	2.4		0	5.0	0		0	5.0	0	
Ref No.	QR4006				QR4007				QR4012				QR7401				QR7402			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.5		0	8.9	0		5.0	0	4.8		0	3.9	0		0	4.7	0	
PLAY	0	0	4.5		0	8.9	0		5.0	0	4.8		0	3.9	0		0	4.7	0	
STOP	0	0	4.5		0	8.9	0		5.0	0	4.8		0	3.9	0		0	4.7	0	

Ref No.	QR7403				QR7404				QR7405				QR7406				QR7407			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.7		12.0	-0.3	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1	
PLAY	0	0	4.7		12.0	-0.7	11.9		0	11.9	0		0	-0.3	0		0	0	-0.3	
STOP	0	0	4.7		12.0	-0.5	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1	

Ref No.	QR7501				QR7503			
MODE	E	C	B		E	C	B	
REC	0	5.0	0		0	0	2.2	
PLAY	0	5.0	0		0	0	2.2	
STOP	0	5.0	0		0	0	2.2	

N

D3.3V
MP D1.8V

XMWE2MP
XMREMP
XCS5MP
XMPDK
CLK27A7
MPMUTE
XMP4REQ
XMPIRQ
XDSCRST
ENCLRCK
ENCBCK
ENCDATA
MP4DATA
ADLRCK2
ADBCK2
GND

R36001 220
R3611 220
R3612 0
R3662 0
R3664 0
C3601 0.01

IC3604
C0JBAB000175
VCC OUTY NC INA GND

C3602 0.1
C3603 0.1

IC3609
C0JBAF000162
VCC PR CLR Q CK D Q GND

A15

FL3604
F1H0J1050018
FL3603
F1H0J1050018
C3606 10V10
C3604 10V10
C3605 10V10

MPDT15 MPDT14 MPDT13 MPDT12 — RX3664 22X4
MPDT11 MPDT10 MPDT9 MPDT8 — RX3662 22X4
MPDQM1 MPCLK MPCKE — R3624 22 — R3627 22 — R3625 22
MPAD9 MPAD8 MPAD7 MPAD6 — RX3659 22X4
MPAD5 MPAD4 MPAD3 — RX3657 22X4
MPDQM3 — R3613 22
MPDT31 MPDT30 MPDT29 MPDT28 — RX3656 22X4
MPDT27 MPDT26 MPDT25 MPDT24 — RX3654 22X4

IC3607
C3ABPJ000018
(16bit/16M SDRAM)
VSS DQ15 VSSQ DQ14 DQ13 VCCQ DQ12 DQ11 VSSQ DQ10 DQ9 VCCQ DQ8 NC VSS DQM1 NC NC CLK CKE A9 A8 A7 A6 A5 A4 A3 DQM3 VSS NC DQ31 VCCQ DQ30 DQ29 VSSQ DQ28 DQ27 VCCQ DQ26 DQ25 VSSQ DQ24 VSS
VCC DQ0 VCCQ DQ1 DQ2 VSSQ DQ3 DQ4 VCCQ DQ5 DQ6 VSSQ DQ7 NC VCC DQM0 /WE /CAS /RAS /CS NC BA0 BA1 A10 A0 A1 A2 DQM2 VCC NC DQ16 VSSQ DQ17 DQ18 VCCQ DQ19 DQ20 VSSQ DQ21 DQ22 VCCQ DQ23 VCC

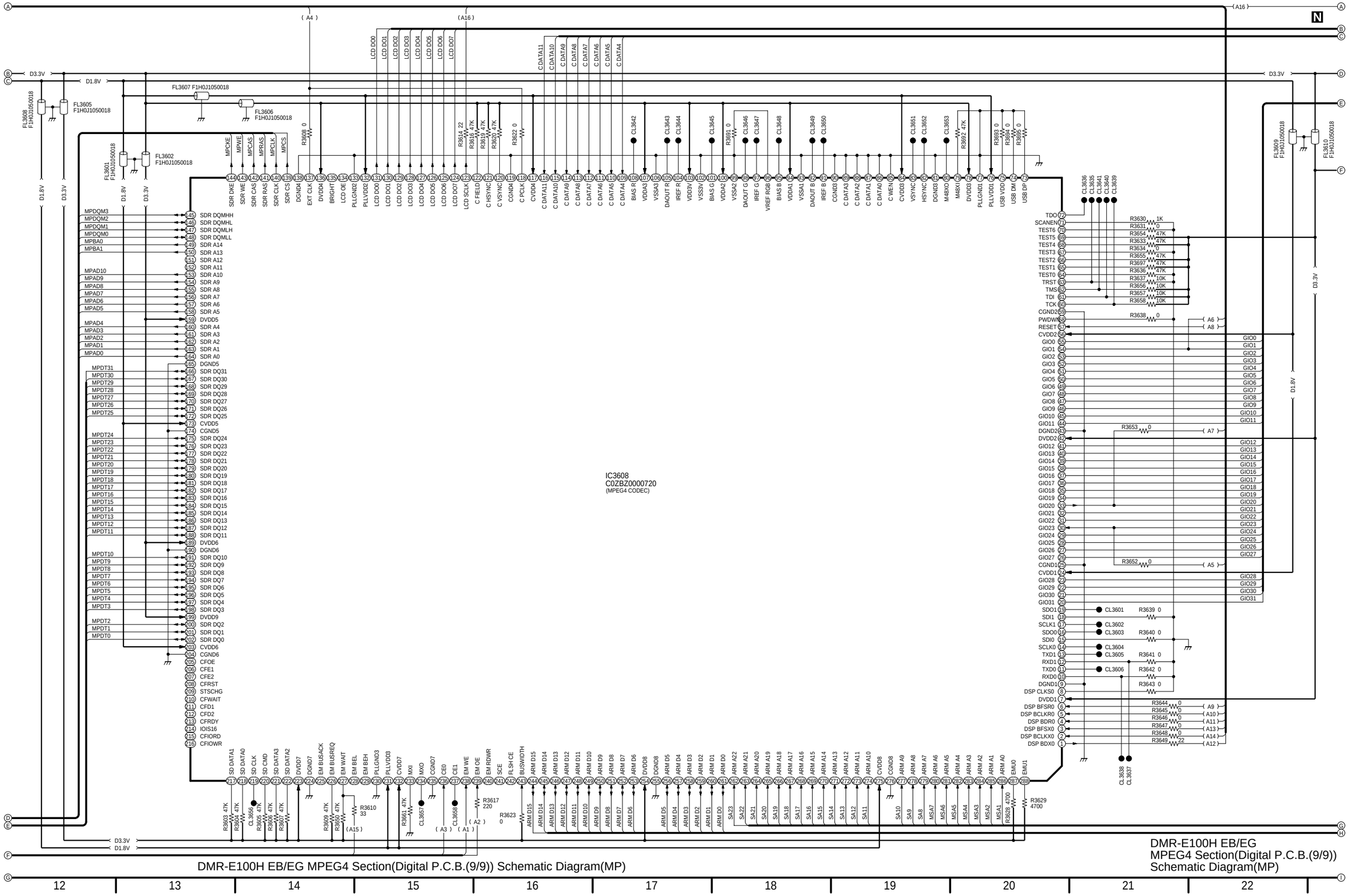
MPDT0 MPDT1 MPDT2 MPDT3 — RX3663 22X4
MPDT4 MPDT5 MPDT6 MPDT7 — RX3661 22X4
R3626 22 — MPDQM0 MPCS MPCAS MPRAS MPWE — RX3660 22X4
R3615 22 — R36002 22 — MPBA0 MPBA1 MPAD10 MPAD0 MPAD1 MPAD2 — RX3658 22X4
R3618 22 — MPDQM2
MPDT16 MPDT17 MPDT18 MPDT19 — RX3655 22X4
MPDT20 MPDT21 MPDT22 MPDT23 — RX3653 22X4

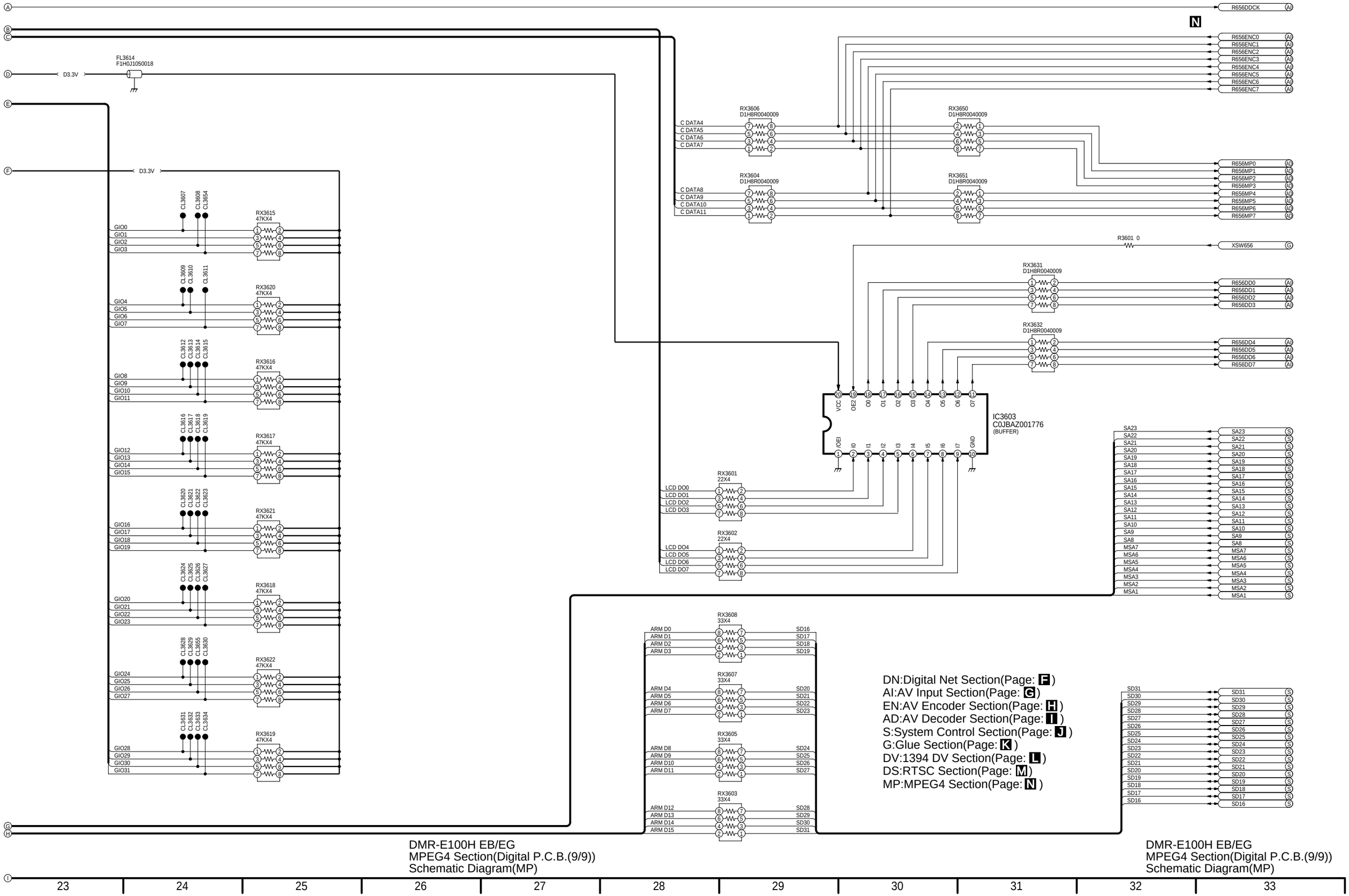
D3.3V

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

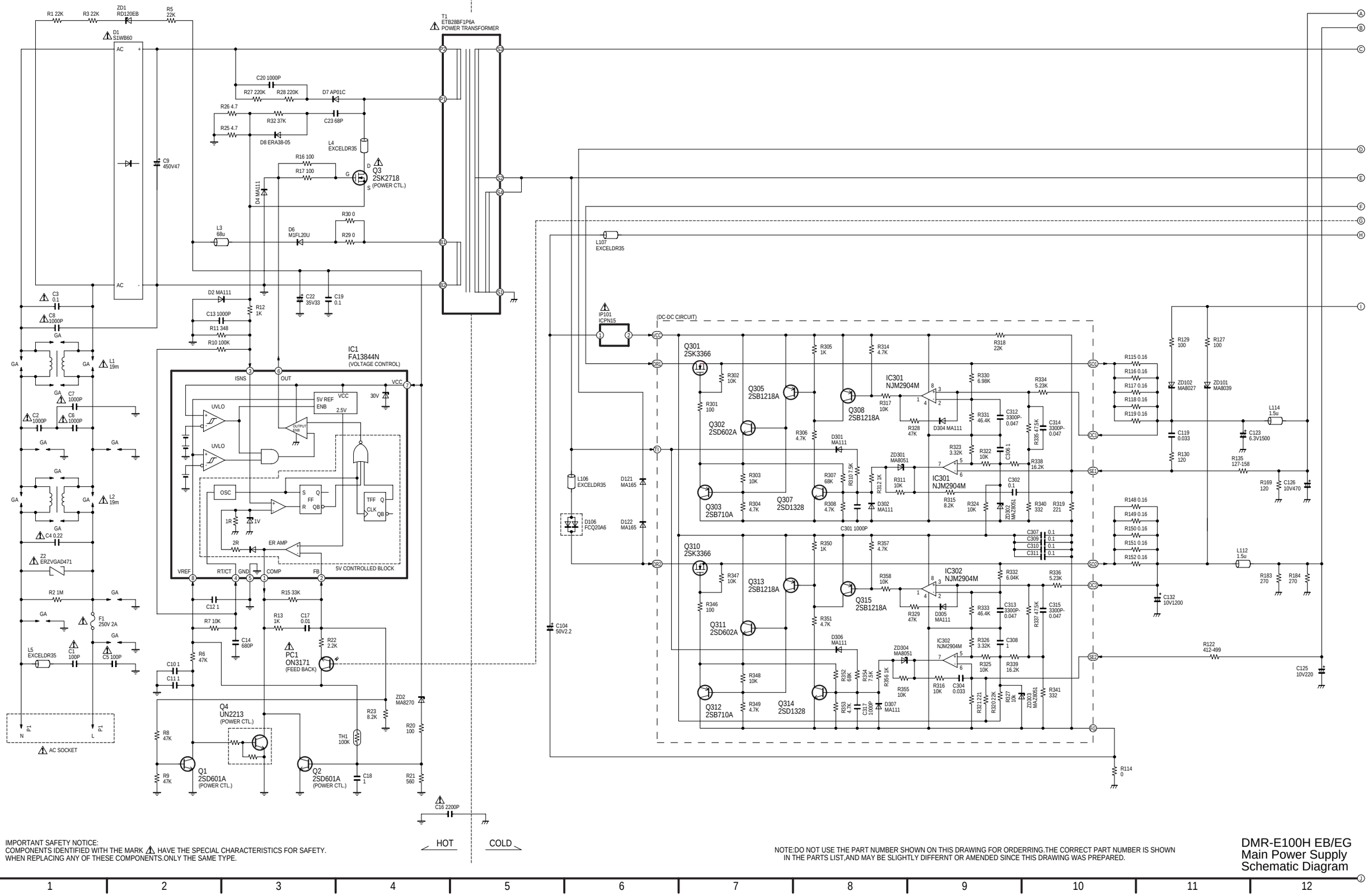
1 2 3 4 5 6 7 8 9 10 11


IC3608
C0ZBZ0000720
(MPEG4 CODEC)
D3.3V
D1.8V
FL3605 F1H0J1050018
FL3606 F1H0J1050018
FL3607 F1H0J1050018
FL3608 F1H0J1050018
FL3609 F1H0J1050018
FL3610 F1H0J1050018
FL3601 F1H0J1050018
FL3602 F1H0J1050018
MPCKE
MPWE
MPCAS
MPRAS
MPCLK
MPCS
SDR DKE
SDR WE
SDR CAS
SDR RAS
SDR CLK
SDR CS
DGND4
EXT CLK
DVDD4
BRIGHT
LCD OE
PLLGND2
PLLVDD2
LCD DO0
LCD DO1
LCD DO2
LCD DO3
LCD DO4
LCD DO5
LCD DO6
LCD DO7
LCD SCLK
C FIELD
C HSYNC
C VSYNC
CGND4
C PCLK
CVDD4
C DATA11
C DATA10
C DATA9
C DATA8
C DATA7
C DATA6
C DATA5
C DATA4
BIAS R
VDDA3
VSSA3
DAOUT R
IREF R
VDD3V
VSS3V
BIAS G
VDDA2
VSSA2
DAOUT G
IREF G
VREF RGB
BIAS B
VDDA1
VSSA1
DAOUT B
IREF B
CGND3
C DATA3
C DATA2
C DATA1
C DATA0
C WEN
CVDD3
VSYNC
HSYNC
DGND3
M48XO
M48XI
DVDD3
PLLGND1
PLLVDD1
USB VDD
USB DM
USB DP
TDO
SCANEN
TEST6
TEST5
TEST4
TEST3
TEST2
TEST1
TEST0
TRST
TMS
TDI
TCK
CGND2
PWDWN
RESET
CVDD2
GIO0
GIO1
GIO2
GIO3
GIO4
GIO5
GIO6
GIO7
GIO8
GIO9
GIO10
GIO11
DGND2
DVDD2
GIO12
GIO13
GIO14
GIO15
GIO16
GIO17
GIO18
GIO19
GIO20
GIO21
GIO22
GIO23
GIO24
GIO25
GIO26
GIO27
CGND1
CVDD1
GIO28
GIO29
GIO30
GIO31
SDO1
SDI1
SCLK1
SDO0
SDI0
SCLK0
TXD1
RXD1
TXD0
RXD0
DGND1
DSP CLKS0
DVDD1
DSP BFSR0
DSP BCLKR0
DSP BDR0
DSP BFSX0
DSP BCLKX0
DSP BDX0
SD DATA1
SD DATA0
SD CLK
SD CMD
SD DATA3
SD DATA2
DVDD7
DGND7
EM BUSACK
EM BUSREQ
EM WAIT
EM BEL
EM BEH
PLLGND3
PLLVDD3
CVDD7
WXI
MXO
CGND7
CE0
CE1
EM WE
EM OE
EM RDWR
SCE
RLSH CE
BUSWIDTH
ARM D15
ARM D14
ARM D13
ARM D12
ARM D11
ARM D10
ARM D9
ARM D8
ARM D7
ARM D6
DVDD8
DGND8
ARM D5
ARM D4
ARM D3
ARM D2
ARM D1
ARM D0
ARM A22
ARM A21
ARM A20
ARM A19
ARM A18
ARM A17
ARM A16
ARM A15
ARM A14
ARM A13
ARM A12
ARM A11
ARM A10
CVDD8
CGND8
ARM A9
ARM A8
ARM A7
MSA7
ARM A6
MSA6
ARM A5
MSA5
ARM A4
MSA4
ARM A3
MSA3
ARM A2
MSA2
ARM A1
MSA1
ARM A0
EMU0
EMU1
MPDQM3
MPDQM2
MPDQM1
MPDQM0
MPBA0
MPBA1
MPAD10
MPAD9
MPAD8
MPAD7
MPAD6
MPAD5
MPAD4
MPAD3
MPAD2
MPAD1
MPAD0
MPDT31
MPDT30
MPDT29
MPDT28
MPDT27
MPDT26
MPDT25
MPDT24
MPDT23
MPDT22
MPDT21
MPDT20
MPDT19
MPDT18
MPDT17
MPDT16
MPDT15
MPDT14
MPDT13
MPDT12
MPDT11
MPDT10
MPDT9
MPDT8
MPDT7
MPDT6
MPDT5
MPDT4
MPDT3
MPDT2
MPDT1
MPDT0
SDR DQMHH
SDR DQMHL
SDR DQMLH
SDR DQMLL
SDR A14
SDR A13
SDR A12
SDR A11
SDR A10
SDR A9
SDR A8
SDR A7
SDR A6
SDR A5
DVDD5
SDR A4
SDR A3
SDR A2
SDR A1
SDR A0
DGND5
SDR DQ31
SDR DQ30
SDR DQ29
SDR DQ28
SDR DQ27
SDR DQ26
SDR DQ25
CVDD5
CGND5
SDR DQ24
SDR DQ23
SDR DQ22
SDR DQ21
SDR DQ20
SDR DQ19
SDR DQ18
SDR DQ17
SDR DQ16
SDR DQ15
SDR DQ14
SDR DQ13
SDR DQ12
SDR DQ11
DVDD6
DGND6
SDR DQ10
SDR DQ9
SDR DQ8
SDR DQ7
SDR DQ6
SDR DQ5
SDR DQ4
SDR DQ3
DVDD9
SDR DQ2
SDR DQ1
SDR DQ0
CVDD6
CGND6
CFOE
CFE1
CFE2
CFRST
STSCHG
CFWAIT
CFD1
CFD2
CFRDY
IOIS16
CFIORD
CFIOWR
CL3642
CL3643
CL3644
CL3645
CL3646
CL3647
CL3648
CL3649
CL3650
CL3651
CL3652
CL3653
CL3636
CL3635
CL3641
CL3640
CL3639
CL3601
CL3602
CL3603
CL3604
CL3605
CL3606
CL3638
CL3637
CL3656
CL3657
CL3658
R3608 0
R3614 22
R3616 47K
R3619 47K
R3620 47K
R3622 0
R3691 0
R3692 47K
R3693 0
R3694 0
R3695 0
R3603 47K
R3604 47K
R3605 47K
R3606 47K
R3607 47K
R3609 47K
R3650 47K
R3610 33
R3661 47K
R3617 220
R3623 0
R3629 4700
R3628 4700
R3630 1K
R3631 0
R3654 47K
R3633 47K
R3634 0
R3655 47K
R3697 47K
R3636 47K
R3637 10K
R3656 10K
R3657 10K
R3658 10K
R3638 0
R3653 0
R3652 0
R3639 0
R3640 0
R3641 0
R3642 0
R3643 0
R3644 0
R3645 0
R3646 0
R3647 0
R3648 0
R3649 22
A4
A16
A6
A8
A7
A5
A9
A10
A11
A13
A14
A12
A15
A2
A3
A1
DMR-E100H EB/EG MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)
12
13
14
15
16
17
18
19
20
21
22



DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

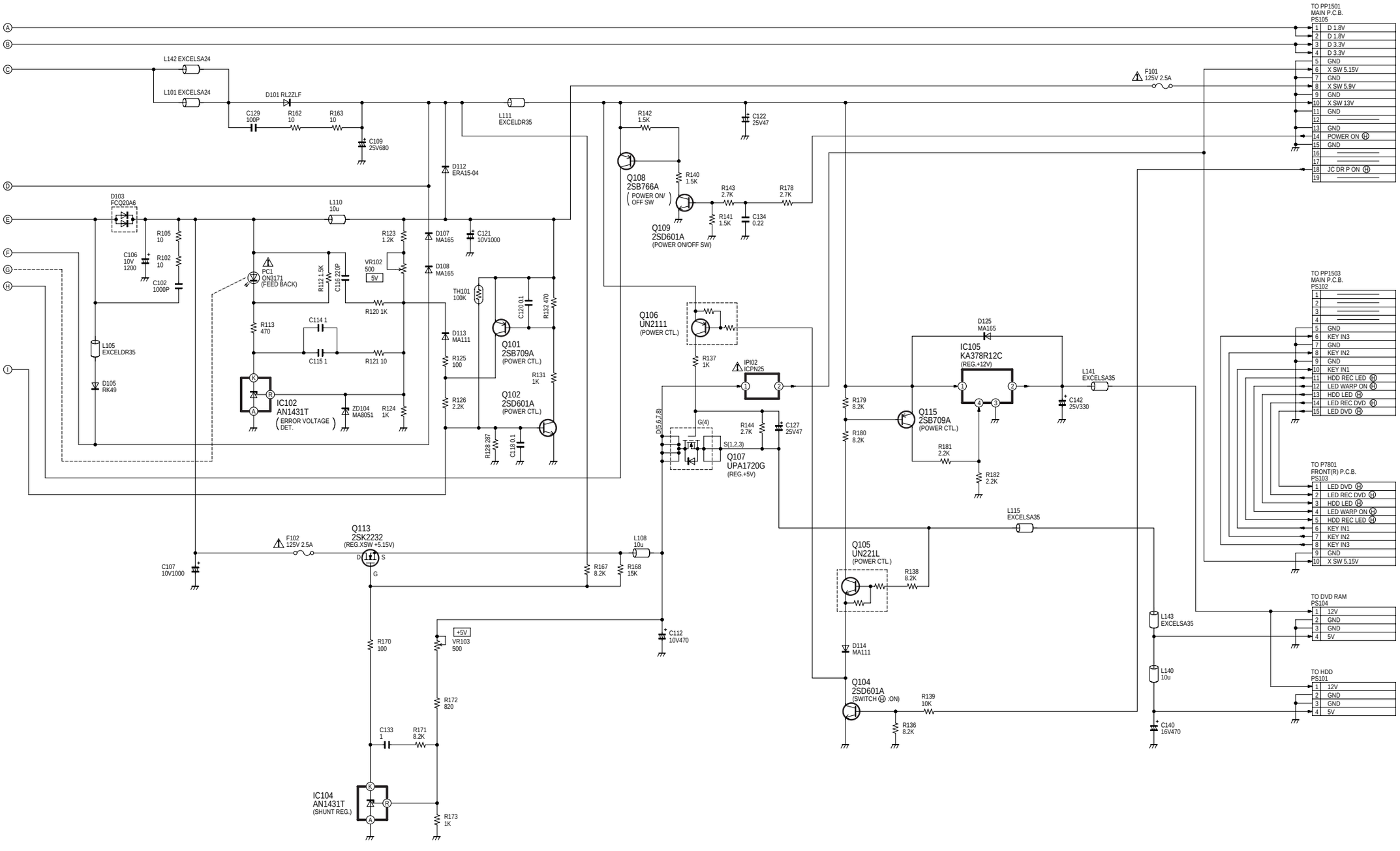
DMR-E100H EB/EG
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Main Power Supply Schematic Diagram



DMR-E100H EB/EG
Main Power Supply
Schematic Diagram

DMR-E100H EB/EG
Main Power Supply
Schematic Diagram

TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301

SIF	1
GND	2
TU AUDIO IN	3
	4
	5
	6
JC 5V	7

TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302

SCL	1
SDA	2
	3
TU AUDIO(R)	4
GND	5
TU AUDIO(L)	6

C7335 0.1
C7305 6V100
IC7302
C0EAH0000051
(RESET)
IN G OUT
L7303 G0C1R0JA0019
LB7303 J0JCC0000080
C7303 6V100
C7306 0.01
C7334 50V2.2
C7311 100P
R7304 100
C7301 0.1
R7301 0
C7302 ERJ3GEY0R00V
C7309 100P
C7310 100P
C7308 10P
C7307 10P
R7319 0
R7317 0

K7302 0
K7301 0
K7305 0
K7303 0
R7322 0
C7330 ERJ3GEYJ822V
X7301 H0D245500016
C7329 ERJ3GEY0R00V
C7332 0.1
R7307 0
C7333 0.1
R7324 100
R7325 100

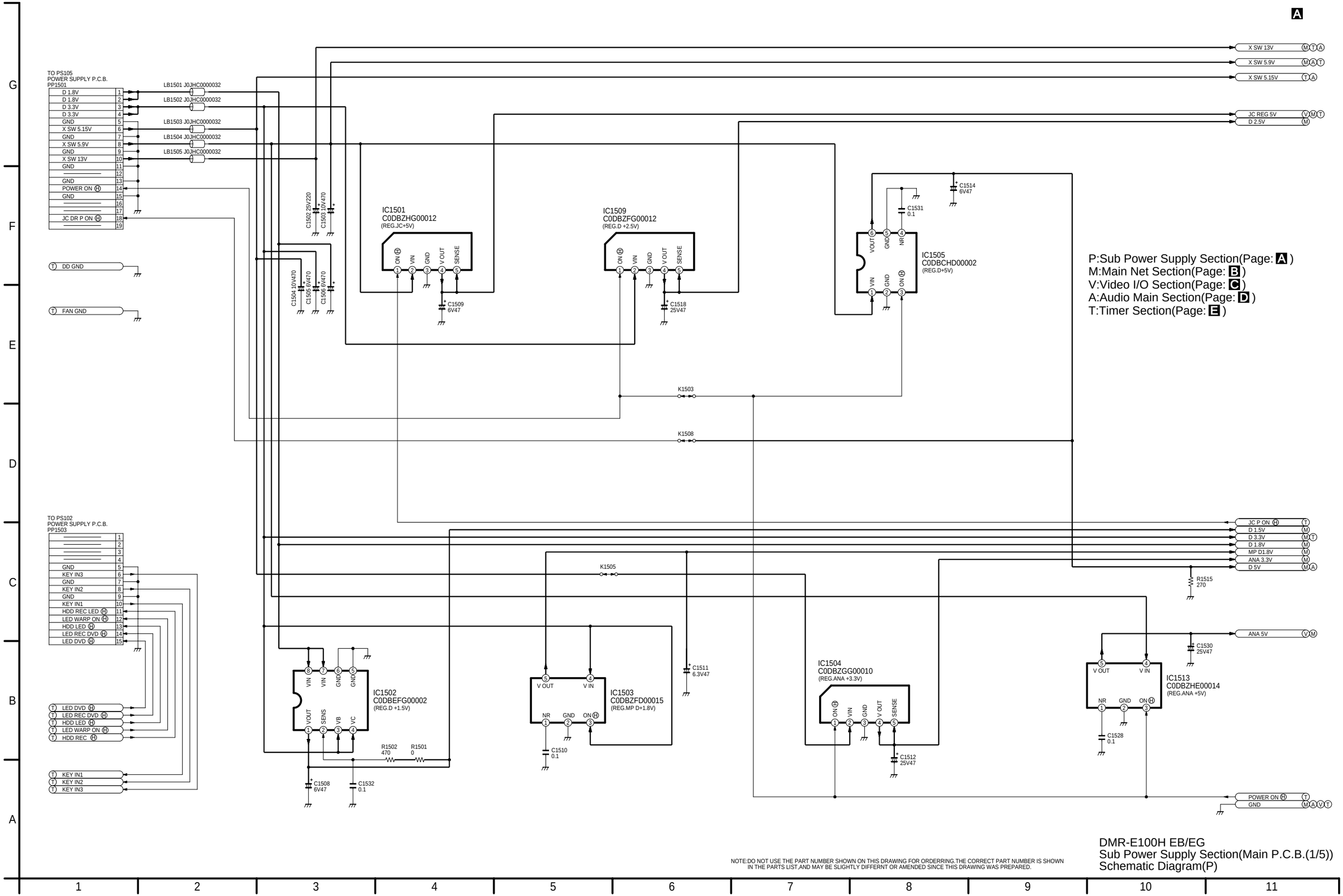
IC7301
C1AB00001404(NICAM/A2)

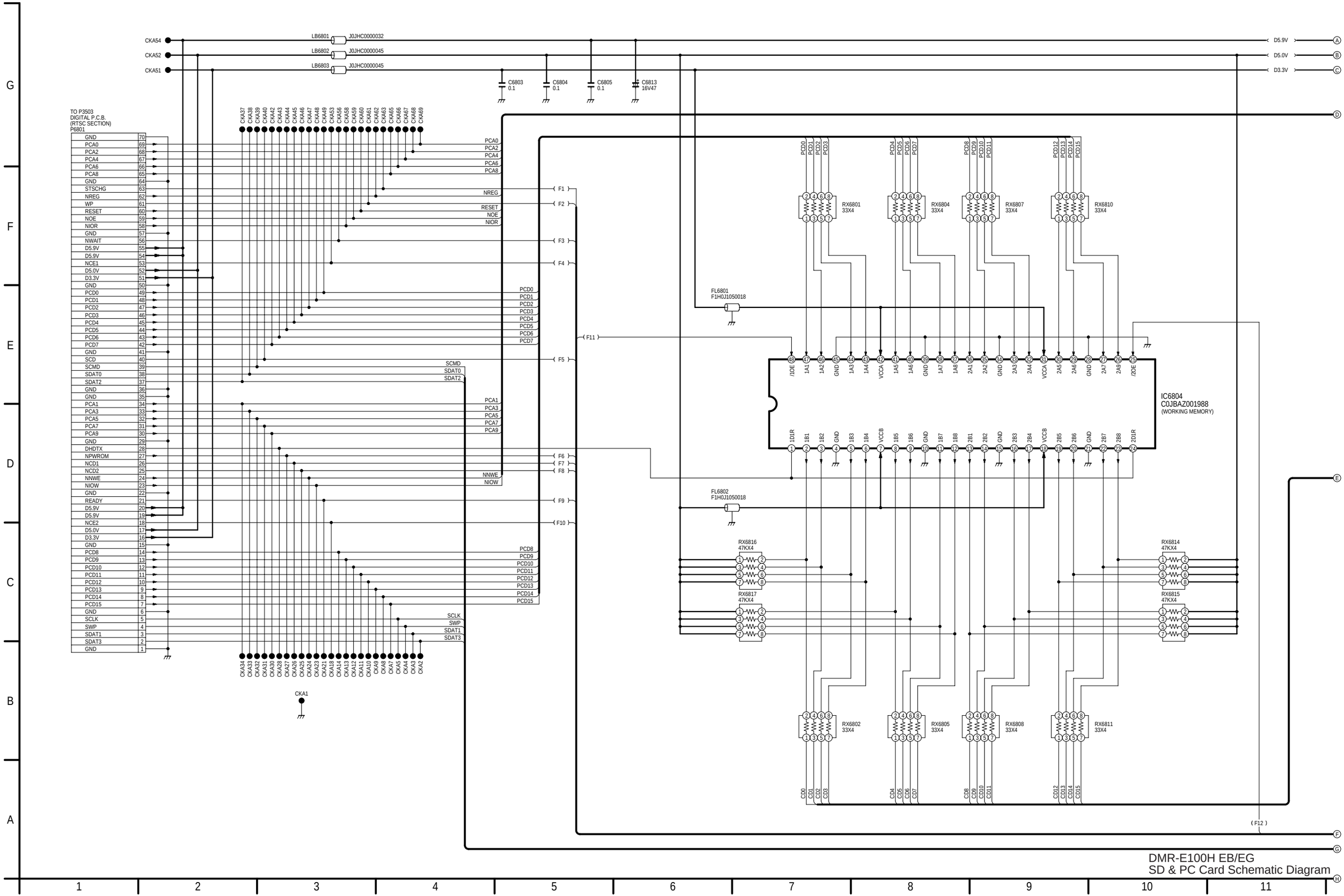
TEST1	VDDA2	VSSA2	ADDR2	1 REF	TEST2	TP3	XTALI	XTALO	ADDR1	PCLK	SIF2	VREF1	SIF1	CRESET	VSSA3	VDDA3	SCL	SDA	SDO/LPF	WS/AF20	SCK/AF21	SYS CLK/CTRIG	VDDD3/CID	VSSD3	P1	MONO IN	EXTIR	EXTIL	V REF2	P2	OUT M	VSSA4	TP1	NICAM	TP2	VDEC2	VSSD2	VDDD1	VSSD1	VSSA1	VDDA1	OUT R	OUT L
22	21	20	19	18	17	16	15	14	13	12	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	11	10	9	8	7	6	5	4	3	2	1

LB7301 J0JCC0000124
C7323 1000P
C7324 0.1
R7312 220
R7313 220
R7309 10K
TL7302
R7311 220
C7317 16V47
TL7303
R7314 0
TL7301
LB7302 J0JCC0000124
C7318 16V10
C7313 16V10
C7312 16V10
R7315 0
C7314 0.1

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
Nicam/Decoder Schematic Diagram


A
TO PS105
POWER SUPPLY P.C.B.
PP1501
D 1.8V 1
D 1.8V 2
D 3.3V 3
D 3.3V 4
GND 5
X SW 5.15V 6
GND 7
X SW 5.9V 8
GND 9
X SW 13V 10
GND 11
12
GND 13
POWER ON H 14
GND 15
16
17
JC DR P ON H 18
19
LB1501 J0JHC0000032
LB1502 J0JHC0000032
LB1503 J0JHC0000032
LB1504 J0JHC0000032
LB1505 J0JHC0000032
T DD GND
T FAN GND
C1502 25V220
C1503 10V470
C1504 10V470
C1505 6V470
C1506 6V470
IC1501
C0DBZHG00012
(REG.JC+5V)
ON H
VIN
GND
V OUT
SENSE
C1509
6V47
IC1509
C0DBZFG00012
(REG.D +2.5V)
C1518
25V47
C1514
6V47
C1531
0.1
IC1505
C0DBCHD00002
(REG.D+5V)
VOUT
GND
NR
VIN
ON H
X SW 13V M T A
X SW 5.9V M A T
X SW 5.15V T A
JC REG 5V V M T
D 2.5V M
K1503
K1508
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
TO PS102
POWER SUPPLY P.C.B.
PP1503
1
2
3
4
GND 5
KEY IN3 6
GND 7
KEY IN2 8
GND 9
KEY IN1 10
HDD REC LED H 11
LED WARP ON H 12
HDD LED H 13
LED REC DVD H 14
LED DVD H 15
T LED DVD H
T LED REC DVD H
T HDD LED H
T LED WARP ON H
T HDD REC H
T KEY IN1
T KEY IN2
T KEY IN3
K1505
JC P ON H T
D 1.5V M
D 3.3V M T
D 1.8V M
MP D1.8V M
ANA 3.3V M
D 5V M A
R1515
270
ANA 5V V M
C1530
25V47
IC1513
C0DBZHE00014
(REG.ANA +5V)
V OUT
V IN
NR
GND
ON H
C1528
0.1
IC1502
C0DBEFG00002
(REG.D +1.5V)
VIN
VIN
GND
GND
VOUT
SENS
VB
VC
R1502
470
R1501
0
C1508
6V47
C1532
0.1
IC1503
C0DBZFD00015
(REG.MP D+1.8V)
C1510
0.1
C1511
6.3V47
IC1504
C0DBZGG00010
(REG.ANA +3.3V)
C1512
25V47
POWER ON H T
GND M A V T
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E100H EB/EG
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11



DMR-E100H EB/EG
SD & PC Card Schematic Diagram

D5.9V
D5.0V
D3.3V

IC6807
C0DBCHG00003
(REG.DC +5V)
Vin ON/OFF Vout NC GND

K6801
ERJ3GEY0R00V

R6804 47K
R6805 47K
R6803 2200
QR6801
UNR521100L
(SWITCH)
C6814 6V100
C6810 0.1
R6809 2200

IC6809
C0EBJ0000153
Vout Vin GND

R6813 22K
R6807 47K
Q6801
UNR521300L
(SWITCH)
R6806 100K
C6809 0.1
R6814 10K
C6811 0.01

FL6804
F1H0J1050018
FL6805
F1H0J1050018
FL6803
F1H0J1050018

PCA0 PCA1 PCA2 PCA3 PCA4 PCA5 PCA6 PCA7 PCA8 PCA9 NREG RESET NOE NWE NIOR NIOW

IC6803
C0JBAZ001959
(BUFFER)
X20E 1A1 1A2 GND 1A3 1A4 VCC 2A1 2A2 GND 2A3 2A4 3A1 3A2 GND 3A3 3A4 VCC 4A1 4A2 GND 4A3 4A4 X30E
X10E 1Y1 1Y2 GND 1Y3 1Y4 VCC 2Y1 2Y2 GND 2Y3 2Y4 3Y1 3Y2 GND 3Y3 3Y4 VCC 4Y1 4Y2 GND 4Y3 4Y4 X40E

RX6803 33X4
RX6806 33X4
RX6809 33X4
RX6812 33X4

CA0 CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 XREG PCRST XOE XWE XIOR XIOW

XCE2 XCE1

CD3 CD4 CD5 CD6 CD7 XCE1 XOE CA9 CA8 XWE CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 CD0 CD1 CD2 CD11 CD12 CD13 CD14 CD15 XCE2 XIOR XIOW PCRST XREG CD8 CD9 CD10

CKB16 CKB15 CKB12 CKB11 CKB9 CKB7 CKB6 CKB5 CKB4 CKB3 CKB2
CKB32 CKB31 CKB30 CKB29 CKB28 CKB27 CKB26 CKB25 CKB24 CKB23 CKB22
CKB36 CKB37 CKB38 CKB39 CKB40 CKB41 CKB42 CKB44 CKB45
CKB1 CKB67 CKB66 CKB65 CKB64 CKB63 CKB62 CKB61 CKB60 CKB59 CKB58 CKB57

R6821 22K
FL6806
F1H0J1050018
CKB17
(F15)
(F16)
R6822 22K
R6815 22K
CKB43 CKB33
FL6808
F1H0J1050018
CKB51
R6827 22K
R6826 22K
R6816 22K
(F14)
R6817 22K
R6818 22K
(F13)
R6820 22K

TO PC CARD
P6802

1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	XIOR
45	XIOW
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	XSTCG
64	D8
65	D9
66	D10
67	XCD2
68	GND

(F6)
(F11)
(F9) (F3) (F13)
(F14) (F16) (F15)
(F2)

R6801 33
C6801 0.1
C6806 0.1
R6824 22K
C6816 0.1
C6808 0.1
R6825 22K
R6819 10K

IC6802
C0JBAZ001166
R6802 33
IC6801
C0JBAE000098
IC6805
C0JBAZ001859
IC6810
C0JBAZ001859
IC6806
C0JBAZ000608
C6812 0.01

(F10)
(F4) (F12)
(F1)
(F7) (F5) (F8)

SDAT2 SDAT3 SCMD SDAT0 SCLK SDAT1 SWP

RX6813
22X4
R6828 12K
R6810 22
R6811 22
R6808 100
C6815 0.01
R6812 22K
R6823 22K
RX6818
12KX4

FL6807
F1H0J1050018

TO SD CARD
P6803

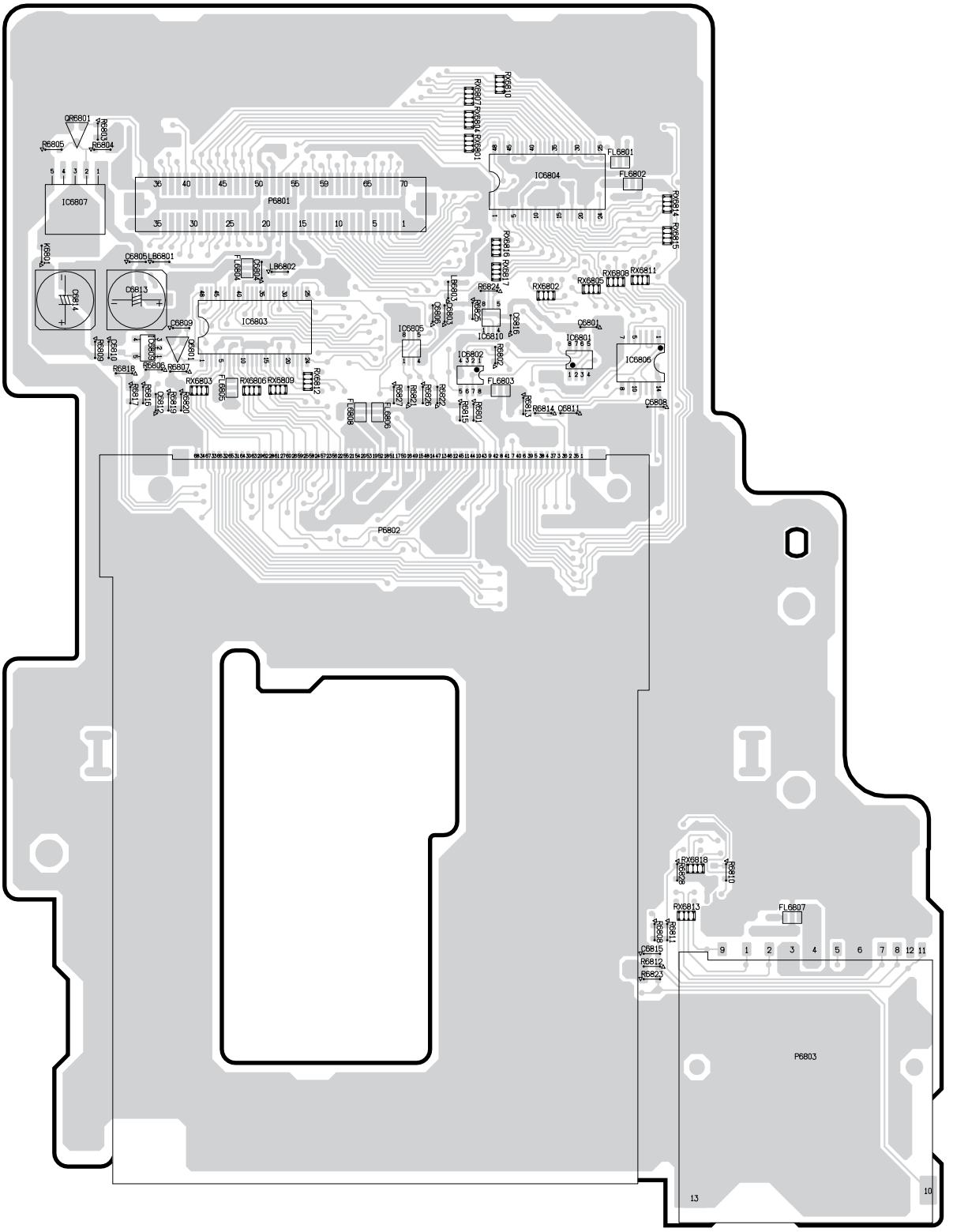
1	DAT3
2	CMD
3	GND
4	3.3V
5	CLK
6	GND
7	DAT0
8	DAT1
9	DAT2
10	WP
11	CD
12	COM
13	FG

DMR-E100H EB/EG
SD & PC Card Schematic Diagram

DMR-E100H EB/EG
SD & PC Card Schematic Diagram

12 13 14 15 16 17 18 19 20 21 22

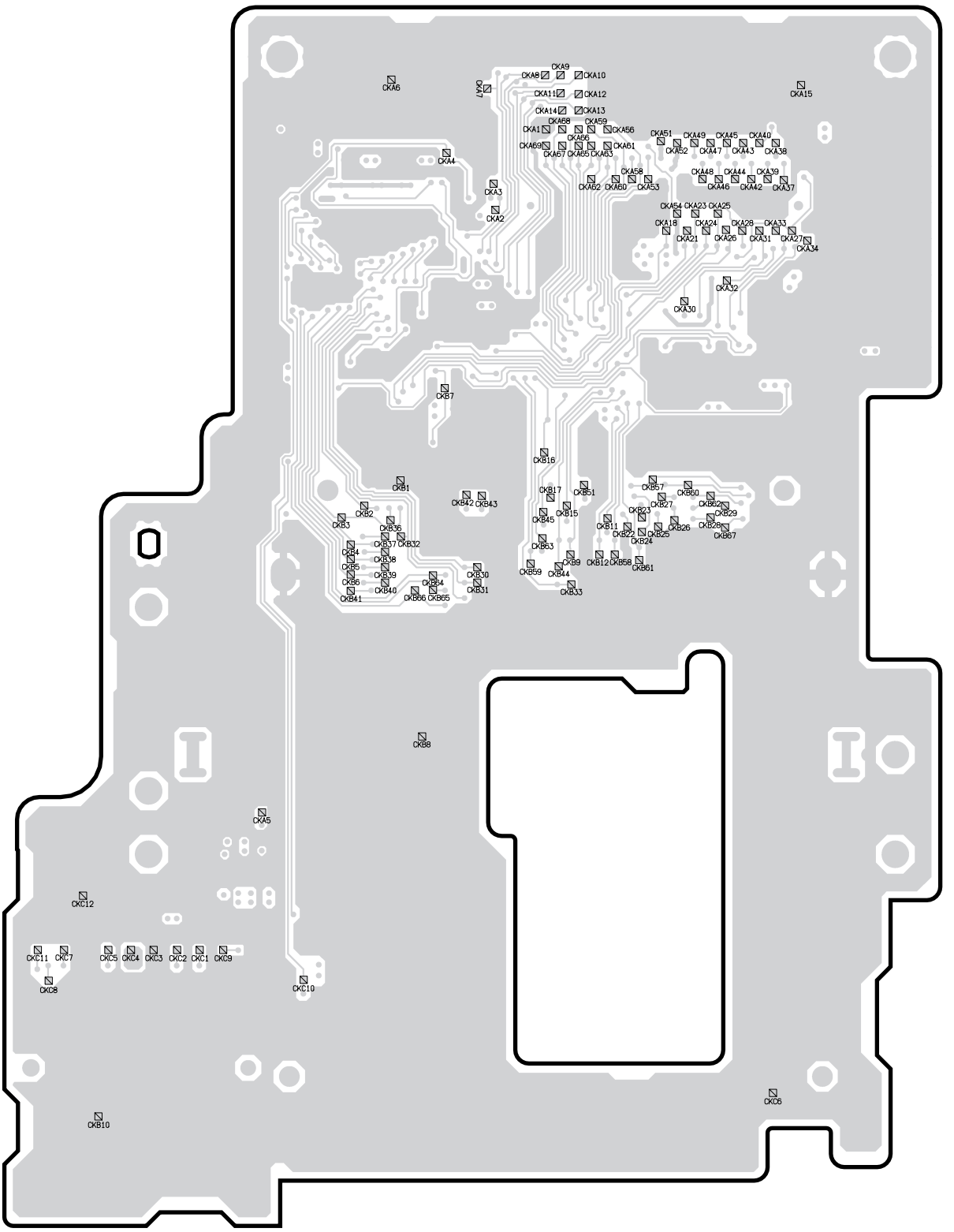
SD & PC CARD P.C.B. (1/2)



(COMPONENT SIDE)

DMR-E100H EB/EG
SD & PC CARD P.C.B. (1/2)
(REP3540EA)

SD & PC CARD P.C.B. (2/2)

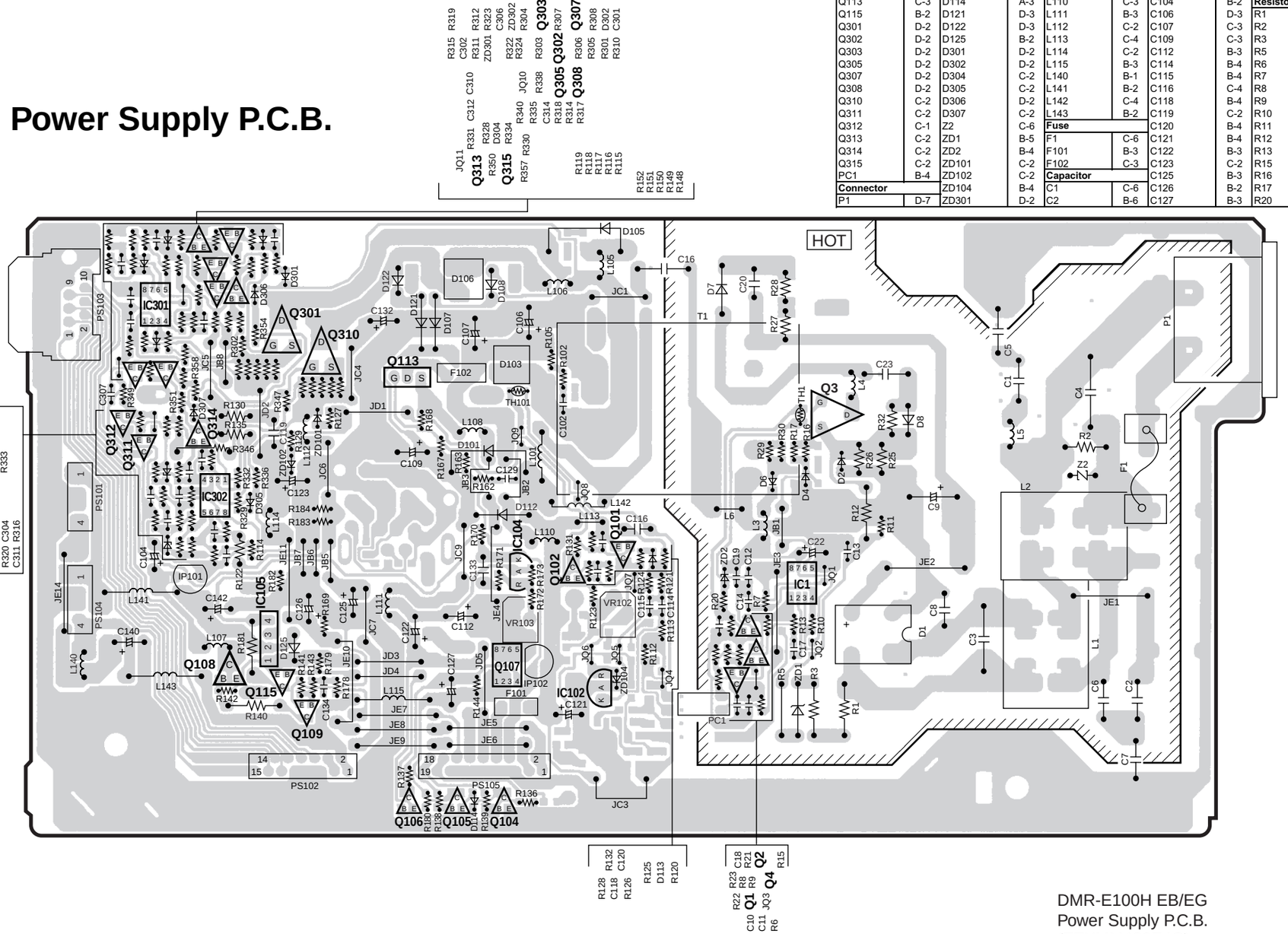


(FOIL SIDE)

DMR-E100H EB/EG
SD & PC CARD P.C.B. (2/2)
(REP3540EA)

Power Supply P.C.B.

POWER SUPPLY P.C.B.																	
Integrated Circuit		PS101	C-1	ZD302	D-2	C3	B-6	C129	C-3	R21	B-4	R139	A-3	R312	D-2	R354	C-2
IC1	B-5	PS102	A-2	ZD303	B-2	C4	C-6	C132	D-3	R22	B-4	R140	B-2	R314	D-2	R355	C-2
IC102	B-4	PS103	D-1	ZD304	C-2	C5	C-6	C133	B-3	R23	B-4	R141	B-2	R315	D-1	R356	C-2
IC104	B-3	PS104	B-1	**IC Protector**		C6	B-6	C134	B-2	R25	C-5	R142	B-2	R316	C-2	R357	C-2
IC105	B-2	PS105	A-3	IP101	B-2	C7	A-6	C140	B-2	R26	C-5	R143	B-2	R317	D-2	R358	C-2
IC301	D-2	**Diode**		IP102	B-3	C8	B-5	C142	B-2	R27	D-5	R144	B-3	R318	D-2	VR102	B-4
IC302	C-2	D1	B-5	**Transformer**		C9	C-5	C301	D-2	R28	D-5	R148	C-3	R319	D-1	VR103	B-3
Transistor		D2	C-5	T1	C-4	C10	B-4	C302	D-1	R29	C-5	R149	C-2	R320	B-2	**Thermister**	
Q1	B-4	D4	C-5	**Coil**		C11	B-4	C304	C-2	R30	C-5	R150	C-2	R321	B-2	TH1	C-5
Q2	B-4	D6	C-5	L1	B-6	C12	B-4	C306	D-2	R32	C-5	R151	C-2	R322	D-2	TH101	C-3
Q3	C-5	D7	D-4	L2	C-6	C13	B-5	C307	C-1	R102	C-4	R152	C-2	R323	D-2		
Q4	B-4	D8	C-5	L3	C-5	C14	B-4	C308	C-2	R105	C-4	R162	C-3	R324	D-2		
Q101	B-4	D101	C-3	L4	C-5	C16	D-4	C309	C-2	R112	B-4	R163	C-3	R325	C-2		
Q102	B-4	D103	C-3	L5	C-6	C17	B-5	C310	D-2	R113	B-4	R167	C-3	R326	B-2		
Q104	A-3	D105	D-4	L6	C-4	C18	B-4	C311	B-2	R114	B-2	R168	C-3	R327	C-2		
Q105	A-3	D106	D-3	L101	C-3	C19	B-4	C312	D-2	R115	C-2	R169	B-2	R328	C-2		
Q106	A-3	D107	D-3	L105	D-4	C20	D-4	C313	C-2	R116	C-2	R170	C-3	R329	C-2		
Q107	B-3	D108	D-3	L106	D-4	C22	B-5	C314	D-2	R117	C-2	R171	B-3	R330	C-2		
Q108	B-2	D112	C-3	L107	B-2	C23	C-5	C315	C-2	R118	C-2	R172	B-3	R331	C-2		
Q109	B-2	D113	B-4	L108	C-3	C102	C-4	C317	C-2	R119	C-2	R173	B-3	R332	C-2		
Q113	C-3	D114	A-3	L110	C-3	C104	B-2	**Resistor**		R120	B-4	R178	B-3	R333	C-2		
Q115	B-2	D121	D-3	L111	B-3	C106	D-3	R1	B-5	R121	B-4	R179	B-2	R334	C-2		
Q301	D-2	D122	D-3	L112	C-2	C107	C-3	R2	C-6	R122	B-2	R180	A-3	R335	D-2		
Q302	D-2	D125	B-2	L113	C-4	C109	C-3	R3	B-5	R123	B-4	R181	B-2	R336	C-2		
Q303	D-2	D301	D-2	L114	C-2	C112	B-3	R5	B-5	R124	B-4	R182	B-2	R337	C-2		
Q305	D-2	D302	D-2	L115	B-3	C114	B-4	R6	B-5	R125	B-4	R183	C-2	R338	D-2		
Q307	D-2	D304	C-2	L140	B-1	C115	B-4	R7	B-5	R126	B-4	R184	C-2	R339	C-2		
Q308	D-2	D305	C-2	L141	B-2	C116	C-4	R8	B-4	R127	C-2	R301	D-2	R340	D-2		
Q310	C-2	D306	D-2	L142	C-4	C118	B-4	R9	B-4	R128	B-4	R302	C-2	R341	C-2		
Q311	C-2	D307	C-2	L143	B-2	C119	C-2	R10	B-5	R129	C-2	R303	D-2	R346	C-2		
Q312	C-1	Z2	C-6	**Fuse**		C120	B-4	R11	C-5	R130	C-2	R304	D-2	R347	C-2		
Q313	C-2	ZD1	B-5	F1	C-6	C121	B-4	R12	C-5	R131	B-4	R305	D-2	R348	C-2		
Q314	C-2	ZD2	B-4	F101	B-3	C122	B-3	R13	B-5	R132	B-4	R306	D-2	R349	C-1		
Q315	C-2	ZD101	C-2	F102	C-3	C123	C-2	R15	B-5	R135	C-2	R307	D-2	R350	C-2		
PC1	B-4	ZD102	C-2	**Capacitor**		C125	B-3	R16	C-5	R136	A-3	R308	D-2	R351	C-2		
Connector		ZD104	B-4	C1	C-6	C126	B-2	R17	C-5	R137	A-3	R310	D-2	R352	C-2		
P1	D-7	ZD301	D-2	C2	B-6	C127	B-3	R20	B-4	R138	A-3	R311	D-2	R353	C-2		



DMR-E100H EB/EG
Power Supply P.C.B.
(ETXMM426E4G)

POWER SUPPLY P.C.B.

MAIN P.C.B.

AC SOCKET
P1

F1

Z2
SURGE SUPPRESSOR AND SURGE ABSORBER

D1
C9
RECTIFIER

T1
POWER TRANSFORMER

P2

IC1
(CONSTANT VOLTAGE CTL.)

1 0 CURRENT DET.

DRAIN 6

F/B 2

VCC 7

P1

B1

B2

S3

S2

S4

S1

VR102
+5-9V

PC1
FEED BACK

IC102
ERROR VOLTAGE DET.

DC-DC CIRCUIT

DR1

REG. D+1.8V

SO1

DR2

REG. D+3.3V

SO2

VCC

IP101

Ⓛ:ON

Q108

Ⓗ:ON

Q109

D+1.8V

PS105 PP1501
1,2

Ⓐ

D+3.3V

PS105 PP1501
3,4

Ⓑ

POWER ON Ⓗ

PS105 PP1501
14

Ⓒ

Ⓓ

F101

X SW+5.9V

PS105 PP1501
8

Ⓔ

Q113
(REG.+5.15V)

F102

D VIN VOUT S

Ⓗ:ON

G

VR103
+5V

IP102

X SW+5.15V

PS105 PP1501
6

IC105
(REG.+12V)

1 VIN VOUT 2

Ⓗ:ON

4

DR+12V

PS104
1
PS104
4

TO DVD RAM

IC104

K

R

A

Q115

Ⓛ:ON

Q105

X SW+13V

PS105 PP1501
10

Ⓕ

Q107
(REG.+5V)

D VIN VOUT S

Ⓗ:ON

G

DR+5V

PS101
4
PS101
1

TO HDD

Q106

Ⓛ:ON

Q104

JC DR P ON Ⓗ

PS105 PP1501
18

HOT

COLD

DMR-E100H EB/EG
Power Supply Block Diagram

MAIN P.C.B.

DIGITAL P.C.B.

Ⓐ D+1.8V

IC1502
(REG.D+1.5V)
7 VIN
8 VIN
VOUT 1

REG.D+1.5V — PP9702 PS9002 4,27 — REG. D+1.5V(PSC 13)

D+3.3V(PSC 14)

Ⓑ D+3.3V

D+3.3V — PP9703 PS9003 15,16

IC9001
(REG.SD+1.8V)
4 VIN
Ⓗ:ON 3
VO 5
REG. SD+1.8V(PSC 15)

IC9003
(REG.EN D+1.8V)
4 VIN
Ⓗ:ON 3
VO 5
REG.EN D+1.8V(PSC 16)

IC1509
(REG.D+2.5V)
2 VIN
Ⓗ:ON 1
VOUT 4

IC1503
(REG.MP D+1.8V)
4 VIN
3 Ⓗ:ON
VOUT 5

IC7505
(SYS PFAIL Ⓗ OUT)
2 VDD
OUT 1

QR7503
(SYS PFAIL Ⓛ OUT)

SYS PFAIL Ⓗ
IC7502- 81
TO
TIMER SEC.

Ⓒ POWER ON Ⓗ

REG.MP D+1.8V — PP9703 PS9003 18 — REG.MP D+1.8V(PSC 17)

Ⓓ X SW+5.15V — X SW+5.15V(PSC 1)

REG.D+2.5V — PP9703 PS9003 12,19 — REG.D+2.5V(PSC 18)

IC1504
(REG.ANA+3.3V)
2 VIN
Ⓗ:ON 1
VOUT 4

K1505

K1503

REG.ANA+3.3V — PP9702 PS9002 2,29 — REG.ANA+3.3V(PSC 19)

REG.ANA+5V — PP9703 PS9003 17 — REG.ANA+5V(PSC 4)

Ⓔ X SW+5.9V

X SW+5.9V — PP9702 PS9002 3,28

IC50011
(REG.DAC+3.3V)
1 VIN
Ⓗ:ON 3
VOUT 6
REG.DAC+3.3V(PSC 20)

IC1501
(REG.JC+5V)
2 VIN
Ⓗ:ON 1
VOUT 4
TO DU7402- 14, 25
JC REG.+5V(PSC 2)

IC4011
(REG.AU+5V)
1 VIN
Ⓗ:ON 2
VOUT 3

REG.AU+5V — PP9702 PS9002 22

REG.AU+5V(PSC 21)

IC7403
(REG.PS+5V)
1 VIN
Ⓗ:ON 3
VOUT 6
TO DU7402- 4
PS +5V(PSC 7)

QR4001,4006

JC P ON Ⓗ
IC7502- 89
FROM
TIMER SEC.

IC9002
(REG.D+3V)
1 VIN
Ⓗ:ON 3
VOUT 6
REG.D+3V(PSC 22)

IC7503
(REG.+5V)
4 VIN
Ⓗ:ON 3
VOUT 5
REG.+5V(PSC 3)

IC7402
(REG.BOOSTER+5V)
1 VIN
3 Ⓗ:ON
VOUT 6
REG.BOOSTER+5V(PSC 8)
TO DU7402- 1

POWER SAVE Ⓛ
IC7502- 56
FROM
TIMER SEC.

IC50015
(REG.D+3.3V)
1 VIN
Ⓗ:ON 3
VOUT 6
REG.D+3.3V(PSC 23)

IC1513
(REG.ANA+5V)
4 VIN
Ⓗ:ON 3
VOUT 5
REG.ANA+5V(PSC 4)

IC1505
(REG.D+5V)
1 VIN
Ⓗ:ON 3
VOUT 6
REG.D+5V(PSC 9)

REG.D+5V — PP9702 PS9002 1,30

POWER ON Ⓗ
IC7502- 88
FROM TIMER SEC.

Ⓕ X SW+13V — X SW+13V(PSC 10)

SD & PC CARD P.C.B.

P3503 P6801 17,52 — REG.D+5V(PSC 9)

P3503 P6801 16,51 — D+3.3V(PSC 14)

IC4010
(REG.AU+12V)
1 VIN
Ⓗ:ON 2
VOUT 3
REG.AU+12V(PSC 5)

IC7401
(REG.PS+12V)
1 VIN
Ⓗ:ON 2
VOUT 3
PS +12V(PSC 11)

IC4013
(REG.AU+9V)
3 IN
OUT 1
REG.AU+9V(PSC 6)

QR7401

IC6807
(REG.DC+5V)

P3503 P6801 19,20,54,55 — 1 VIN, ON/OFF 2, VOUT 3 — REG.DC+5V(PSC 24)

QR4006,4007

QR6801

NPWRON
IC3503- 181
FROM
RTSC SEC.

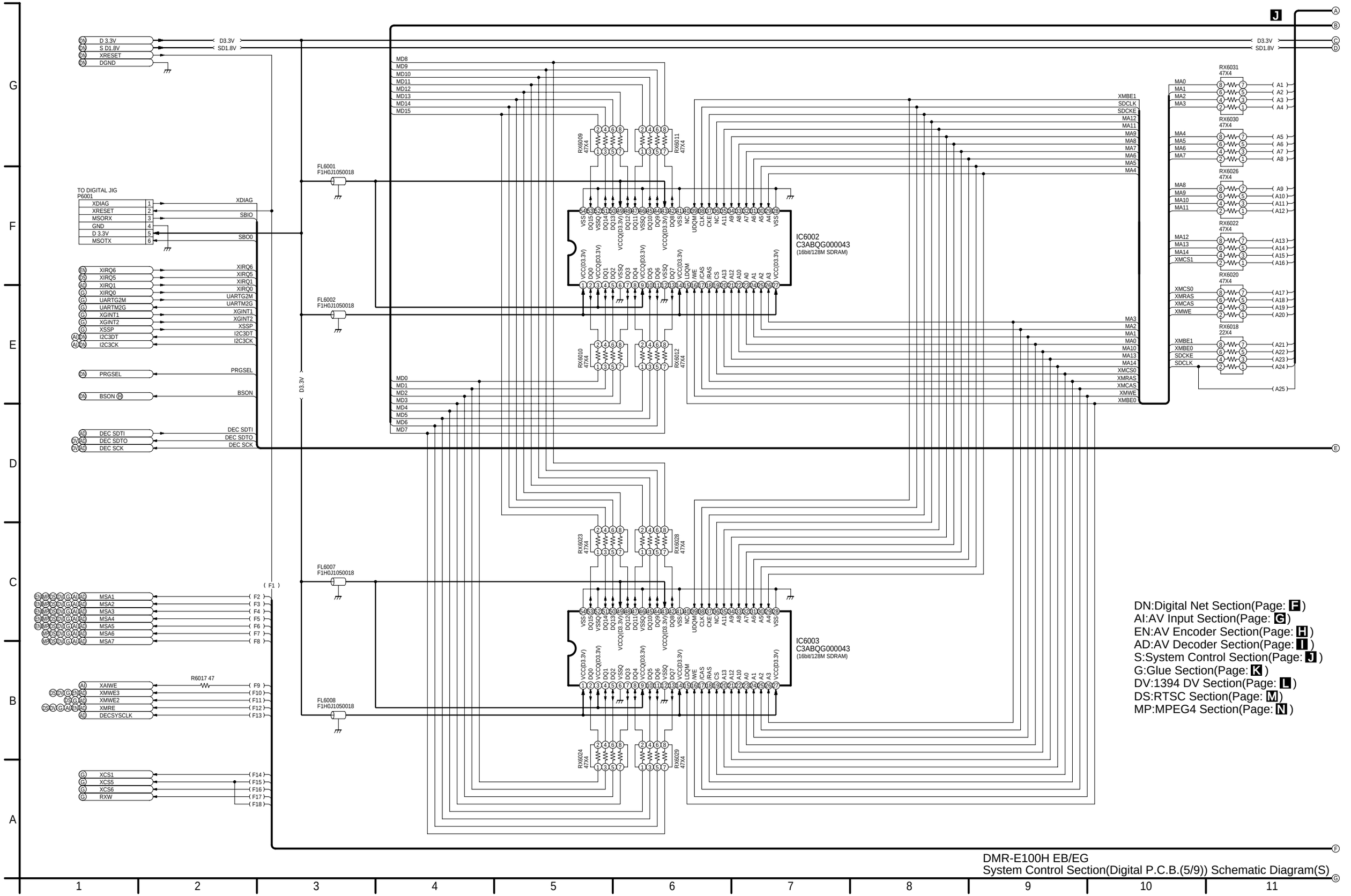
IP7501
1
2

T7501
(DISPLAY REG.)
4
6

UNREG+38V
DU7402- 16
TO
MAIN NET SEC.

DMR-E100H EB/EG
Power Supply Block Diagram

DMR-E100H EB/EG
Power Supply Block Diagram



DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

IC6004
MN103E0500YD
(MAIN CPU)

IC6001
C0EBE0000130
(RESET)

D3.3V

FL6011
F1H0J1050018

RX6033 47X4 (D25 D24 D23) (F17)
RX6032 47X4 (D22 D21 D20 D19)
RX6027 10KX4 (D18 D17)
RX6025 33X4 (D16 D15 D14 D13) (F14)
RX6021 33X4 (D12 D11 D10 D9) (F15 F16)
RX6014 33X4 (D8 D7 D6 D5)
RX6013 33X4 (D4 D3 D2 D1)

RX6034 33X4 (B1 B2 B3 B4) SA25 SA24
RX6035 33X4 (B5 B6 B7 B8) SA23 SA22 SA21 SA20
RX6036 33X4 (B9 B10 B11 B12) SA19 SA18 SA17 SA16
RX6037 33X4 (B13 B14 B15 B16) SA15 SA14 SA13 SA12
RX6038 33X4 (B17 B18 B19 B20) SA11 SA10 SA9 SA8
RX6039 33X4 (B21 B22 B23 B24) SA7 SA6 SA5 SA4
RX6040 33X4 (B25 B26 B27 B28) SA3 SA2 SA1

RX6019 33X4 (C16 C15 C14 C13) SD31 SD30 SD29 SD28
RX6017 33X4 (C12 C11 C10 C9) SD27 SD26 SD25 SD24
RX6016 33X4 (C8 C7 C6 C5) SD23 SD22 SD21 SD20
RX6015 33X4 (C4 C3 C2 C1) SD19 SD18 SD17 SD16

RX6041 33X4 FSD16 FSD24 FSD17 FSD25
RX6042 33X4 FSD18 FSD26 FSD19 FSD27
RX6043 33X4 FSD20 FSD28 FSD21 FSD29
RX6044 33X4 FSD22 FSD30 FSD23 FSD31

SD16 SD17 SD18 SD19 SD20 SD21 SD22 SD23 SD24 SD25 SD26 SD27 SD28 SD29 SD30 SD31

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

SA8 SA9 SA10 SA11 SA12 SA13 SA14 SA15 SA16 SA17 SA18 SA19 SA20 SA21 SA22 SA23 SA24 SA25

IC6007
C0JBAZ001475
(ADDRESS BUFFER)

R6016
10K

FL6010
F1H0J1050018

IC6006
C3CBKD000119
(8Mbit LOADER)

F24 XMREMP
F26 DVSYSCLK
F25 DAVSYSCLK
F20 XDK
F23 XMWE2MP
F22 XCS5MP
F19 XRSTOUT
F21 GSYSCLK
XFROMCS

RX6045 33X4
RX6046 33X4
RX6047 33X4
RX6048 33X4

R6024 33
R6027 33
R6029 33

(F18) (F22) (F23) (F24) (F25) (F26) (F13) (F11) (F10) (F12) (F7) (F8) (F6) (F5) (F3) (F4) (F2) (F9)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

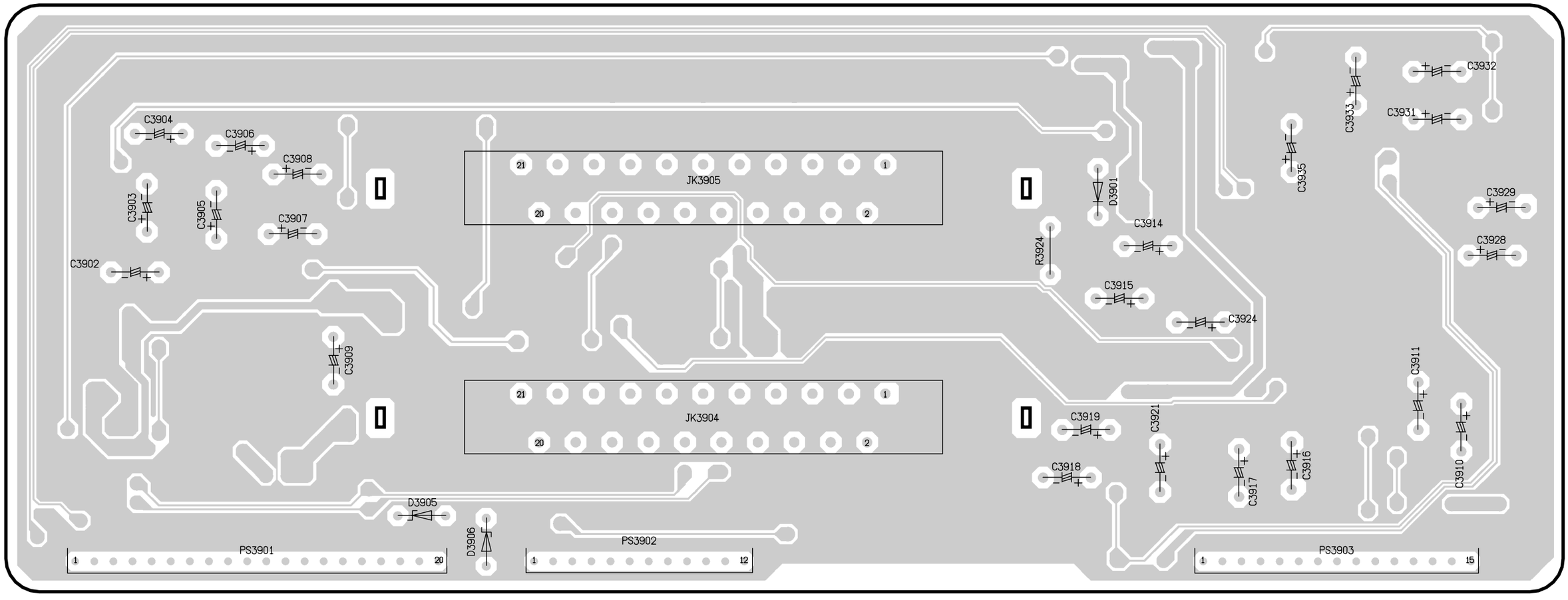
DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

SCART P.C.B.



(COMPONENT SIDE)

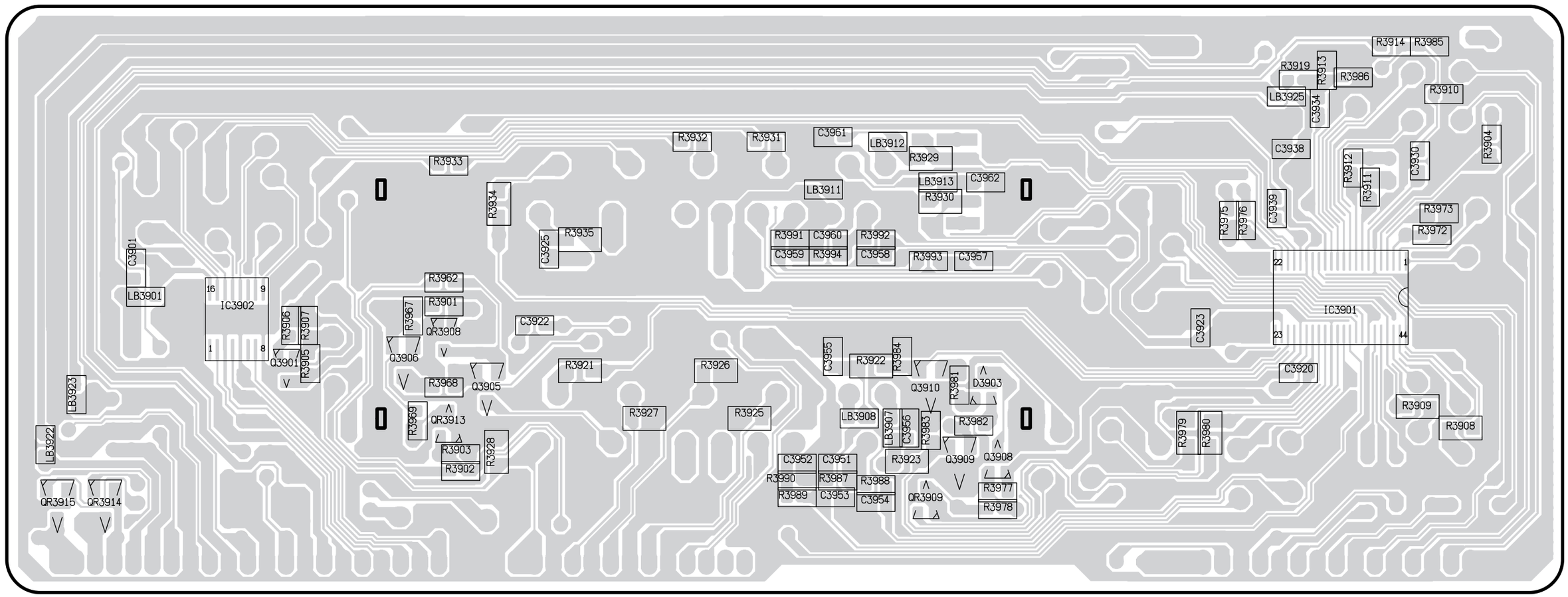
DMR-E100EB/EG
Scart P.C.B. (Component Side)
(REP3533A)

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

SCART P.C.B.



(FOIL SIDE)

DMR-E100HEB/EG
Scart P.C.B. (Foil Side)
(REP3533A)

TO PP7401
MAIN P.C.B.
(MAIN NET SEC.)
PS3901

IIC CLK	1
IIC DATA	2
PROG (H)	3
BOOSTER+5V	4
PS 5V	5
TUNER VIDEO	6
GND	7
SCART V IN	8
GND	9
CPS V OUT	10
GND	11
CPN Y OUT	12
GND	13
PS 12V	14
GND	15
B OUT	16
GND	17
G OUT	18
GND	19
R/C OUT	20

TO PP7402
MAIN P.C.B.
(MAIN NET SEC.)
PS3902

AV2 V IN	1
GND	2
R/C IN	3
GND	4
G IN	5
GND	6
B IN	7
GND	8
AV2 8	9
P50	10
————	11
————	12

TO PP7403
MAIN P.C.B.
(MAIN NET SEC.)
PS3903

PWR SAVE (H)	1
AUDIO MUTE	2
GND	3
L3 IN(R)	4
GND	5
L3 IN(L)	6
GND	7
DECODER(R)	8
GND	9
DECODER(L)	10
GND	11
MIX(R) OUT1	12
GND	13
MIX(L) OUT1	14
GND	15

QR3914
UNR221500L
(PROG (H):ON)

QR3915
UNR221500L
(PROG (H):ON)

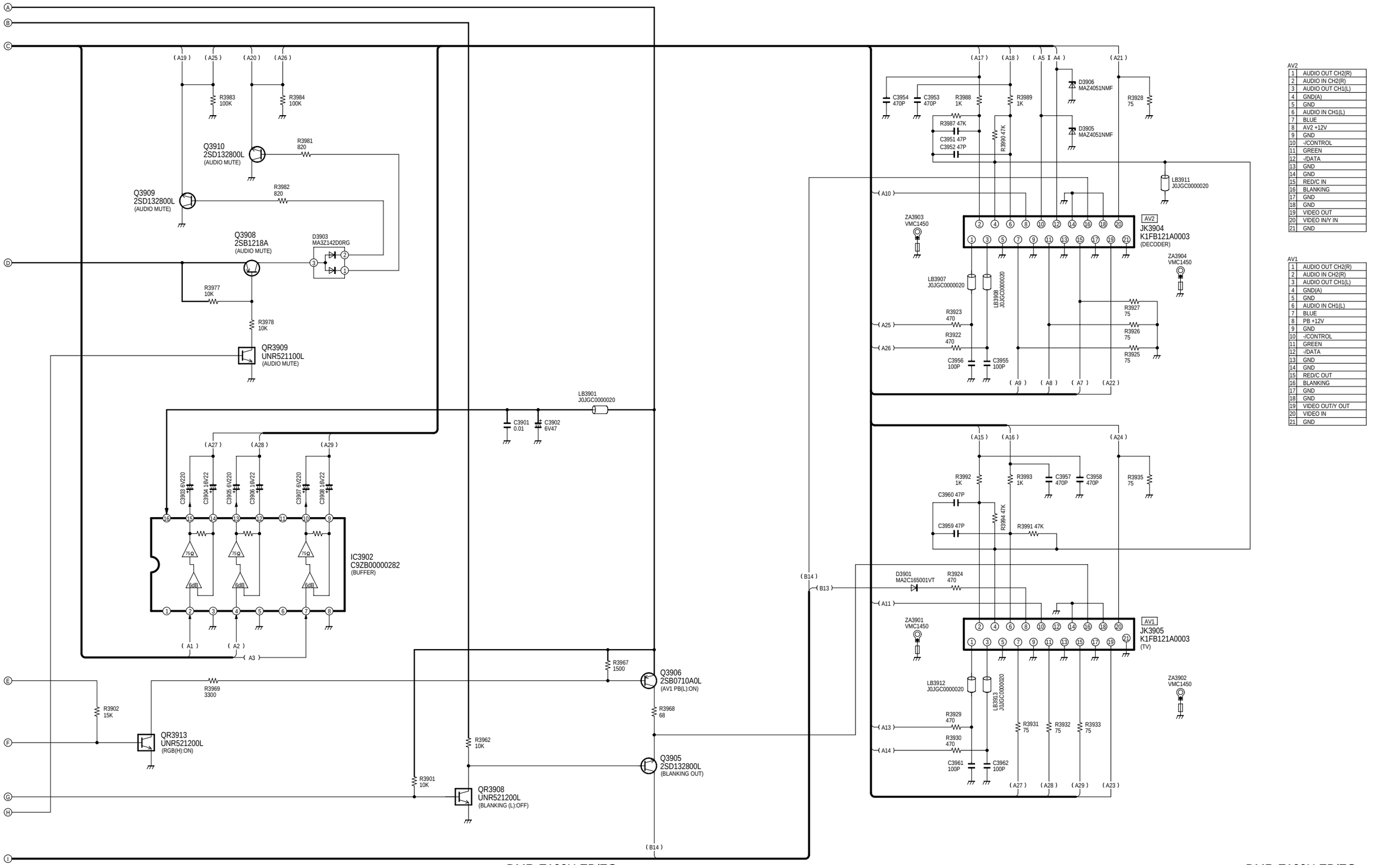
Q3901
2SD1819A0L
(AMP)

IC3901
C1AB00001776
(A/V BUFFER AND SWITCH)

LB3923 J0JGC0000020
LB3922 J0JGC0000020
LB3925 J0JGC0000020

GAIN CTL (0,2,4,6dB)
EXTEMAL CONTROL4
ALWAYS VCC (5V±0.5V)
CLAMP
CONTROL VCC (5V±0.5V)
SERIAL CONTROL
EXT MUTE CONTROL (HLCH ◄► SW3B) OPEN LOW ◄► NORMAL1
POWER SAVE (HLCH ◄► SW3B) OPEN LOW ◄► NORMAL1
VIDEO SW3
10V REG
TO AUDIO VCC
VCC 12V (12V±0.5V)
TO REF DC
BLANKING (L)
FSS CONTROL TERMINAL (L.M.H)
DATA CLOCK INTERFACE BLOCK
AV2 THROUGH (L)
Y/C(H) EXTEMAL CONTROL1
EXTEMAL CONTROL2
EXTEMAL CONTROL3
GAIN CTL (0.6dB)

DMR-E100H EB/EG
Scart Schematic Diagram



AV2

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

DMR-E100H EB/EG
Scart Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Scart Schematic Diagram

12 13 14 15 16 17 18 19 20 21 22

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

Note1:
To improve productivity,C7526 and D7503 are inserted in contrary position as running change.

E

DP7501
A2BD00000064
FIP
DISPLAY

TL7501

TL7502

C7501 150P
C7502 150P
C7503 150P
C7504 150P
C7505 150P
C7506 150P
C7507 150P
C7508 150P

LB7501
ERJ3GEY0R00V

C7512
1

C7518
0.1

C7517
35V22

Q7502
2SD0601A0L
(DP DRIVE)

R7504
10K

R7503
68K

Q7501
2SD0601A0L
(DP DRIVE)

R7502
10K

R7501
68K

IC7501
C0HBB0000029
(DISPLAY DRIVE)

C7513
0.1

C7599 100P

C7578 100P

R7622 22K
R7593 22K
R7594 22K

C7579 100P

C7515 1

R7508
27K

C7516
100P

LB7502
ERJ3GEY0R00V

(F50) (F28) (F37) (F36)

F40 AV2 THROUGH H V
F41 YC H V
F42 RFC A MUTE M

F57 KEY IN2 P
F61 KEY IN3 P

F46 XSCART MUTE A
F69 PWR SAVE H M

F63 A4 S IN L V

F56 LED WARP ON H P
F55 LED DVD H P
F54 LED REC DVD H P
F53 HDD LED H P

F32 XINTM M
F27 XINTP M

C7566
10P

C7565
10P

F16 XTMUTE A
F17 PROG H M
F18 SW2 M
F19 WIDE H M
F20 AV2 PB H M
F71 IIC CLK M V A
F72 IIC DATA M V A

R7533 4700
R7534 4700

C7548
10P

C7549
10P

HDD REC H P
L2 IN R A
L2 IN L A
CPS 2V IN V
CPN 2C IN V
CPN 2Y IN V

TO P7001
FRONT(L) P.C.B.
P7501

20	CPN 2Y IN
19	GND
18	CPN 2C IN
17	GND
16	LINE 2V IN
15	L2 C S DET
14	GND
13	L2 IN(L)
12	GND
11	L2 IN(R)
10	GND
9	POW LED H
8	——
7	——
6	KEY IN3(R)
5	KEY IN3(L)
4	KEY IN2(R)
3	KEY IN2(L)
2	N SW 5V
1	IR

R7626
75

F58
F64
F29
F61
F65
F57
F66
F9

C7607
0.01

F70
F62

LB7520
J0JGC0000020

LB7522
J0JGC0000020

LB7521
ERJ3GEY0R00V

TO FAN MOTOR
P7504

1	FANDCOUT
2	GND
3	FANLOCK

R7604
22K

R7607 4700

R7605
22K

F33 UARTP2G M
F34 UARTG2P M
F35 XFWE M

C7589 10P

C7590 10P

F31 POWER ON H A P
F30 JC P ON H P
F26 AV2-8 M
F24 METER L A
F23 METER R A
F25 AFC M

UNREG 38V M
DDGND P

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

R7509

R7512 330

Note1:

C7526
35V10

D7503
MAZ4240NMF

C7522
0.1

T7501
ETS13TB119AP
(DISPLAY REG.)

LB7503
G0ZZ00001936

D7504
MA2C18500E

R7514
3.9

D7502
B0AAGM000007

C7525 6V220

C7529
35V22

C7527
0.022

D7506
MAZ4300NMF

R7510
33K

C7523
0.047

R7515
3300

R7516
100

D7505
MA2C18500E

C7528
50V10

C7524
0.01

D7501
B0HAGR000002

Q7503
2SD1994BR1VT
(POWER CTL.)

R7513 22K

R7511
22K

Q7504
2SD0601A0L
(PWR SAVE H:ON)

(F68)

(F47)

(F69)

F8

C7585
0.01

C7586
16V47

IC7507
C0ABBA000073
(FAN MOTOR DRIVE)

V+ B OUT B-IN B+IN
A OUT A-IN A+IN GND

R7602 18K
R7601 820

R7600
10K

Q7515
2SD111900L
(FAN MOTOR DRIVE)

C7587
0.1

(F70)

R7599
22K

TL7520
TL7519
TL7518

C7584
0.1

F38
F71
F72
F21
F22

IC7506
C3EBJC000038
(EEPROM)

VCC /WE SCL SDA
NC NC NC VSS

DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

12 13 14 15 16 17 18 19 20 21 22

FRONT (L) P.C.B.

S7003 POWER — KEY IN2(L) — P7001 P7501 3 — KEY IN2(L) → IC7502 (TIMER) 97 KEY IN2

P7001 P7501 4 — KEY IN2(R)

POWER — N SW+5V — D7001 — QR7001 (POWER LED DRIVE) — POW LED (H) — P7001 P7501 9 → 90 POWER LED (H)

IR7001 REMOTE CTL. RECEIVER (3 2 1)

P7001 P7501 5 — KEY IN3(L) → 104 KEY IN3

P7001 P7501 6 — KEY IN3(R)

N SW+5V — P7001 P7501 1 → 3 REMOTE CTL.

S7814 EXT-LINK — S7813 TIMER-REC — S7812 PLAY — S7811 TIME-WARP — S7810 ERASE — S7809 MODE — S7808 CH-UP — KEY IN2(R) — P7801 PS103 PS102 PP1503 7 8

S7805 STOP — S7804 SKIP-R — S7803 CH-DOWN — S7802 REC — KEY IN3(R) — P7801 PS103 PS102 PP1503 8 6

KEY IN1(R) — P7801 PS103 PS102 PP1503 6 10 → 96 KEY IN1

X SW5.15V — TIME-WARP — D7801 — QR7801 (TIME-WARP LED DRIVE) — TIME-WARP LED (H) — P7801 PS103 PS102 PP1503 4 12 → 76 TIME-WARP LED (H)

SKIP-F S7815 — OPEN/CLOSE S7816 — DVD REC — D7802 — QR7803 (DVD REC LED DRIVE) — LED REC DVD (H) — P7801 PS103 PS102 PP1503 2 14 → 78 LED REC DVD (H)

DVD S7817 (1 2 3 4 5 6) — X SW5.15V — QR7802 (DVD LED DRIVE) — DVD LED (H) — P7801 PS103 PS102 PP1503 1 15 → 77 DVD LED (H)

IC7508 (RESET) — X SW5.15V → 5 4 → 11 RESET (L)

HDD REC — X SW5.15V — D7804 — QR7805 (HDD REC LED DRIVE) — LED REC HDD (H) — P7801 PS103 PS102 PP1503 5 11 → 74 HDD REC LED (H)

HDD S7818 (1 2 3 4 5 6) — X SW5.15V — QR7804 (HDD LED DRIVE) — HDD LED (H) — P7801 PS103 PS102 PP1503 3 13 → 79 HDD LED (H)

FRONT (R) P.C.B.

IP7501 IC PROTECTOR (1 2) — T7501 DISPLAY REGULATOR (4 1 5) — DP7501 DISPLAY (F+, F-, 1G, 2G)

IC7501 (DISPLAY DRIVE)

FIPTLK 42 — FIPCLK 44 — S DATA 16 — SCK 15

SEQ00 59 — SEQ26 33 — SEQ27 31 — SEQ32 26 — DIG07 5 — DIG06 6

X SW13V

IC7507 (FAN MOTOR DRIVE) — FAN DC OUT 2 — B+IN 5 — A OUT 1 — Q7515 (FAN MOTOR DRIVE) — FAN D/C OUT — P7504 1 P7504 3 — FAN MOTOR (M) — FAN LOCK (H) 64

Q7501 (DISPLAY DRIVE) — Q7502 (DISPLAY DRIVE) — N SW+5V

AUDIO MUTE (L) 20 — XT MUTE QR4002-QR4005,Q4004

SCART MUTE (L) 57 — SCART MUTE QR4012

RFC A MUTE (H) 52 — RFC A MUTE (H) QR7406,QR7407

DC L CH 101 — METER L IC4001- 17

DC R CH 102 — METER R IC4001- 18

TO/FROM ANALOG AUDIO SEC.

SYNC IN 109 — Q7507 VIDEO SYNC OUT — SLICER VIDEO IC3001- 42

CVIN1 113 — Q7505 AMP

AV2 THROUGH (L) 50 — QR7501 INV. — AV2 THROUGH (H) IC3004- 9 10 11

YC (H) 51 — YC (H) IC3002- 9 10 11

TO/FROM ANALOG VIDEO SEC.

POWER SAVE (L) 56 — POWER SAVE (L)

POWER ON (H) 88 — POWER ON (H)

JC P ON (H) 89 — JC P ON (H)

TO POWER SUPPLY SEC.

IIC CLK 28 — IIC CLK — PK7702 PK7302 1 — 29 SCL

IIC DATA 29 — IIC DATA — PK7702 PK7302 2 — 30 SDA

IC7301 (DECODER PACK)

XCIN 9 — X7502 32.768MHz — XCOUT 10

PP7401 PS3901 2 — 21 SDA

PP7401 PS3901 1 — 22 SCL

IC3901 (SCART)

IC7506 (EEPROM) — 6 SCL — 5 SDA

IC4001 (AUDIO PROCESS) — 21 SDA — 20 SCL

XOUT 12 — X7503 10MHz — XIN 14

IC3001 (VIDEO PROCESS) — 30 SCL — 31 SDA

DU7402 VIF TUNER — 11 SCL — 12 SDA

DMR-E100H EB/EG
Timer Block Diagram

C

P ANA5V
M COUT DM
M YOUT DM
P JC REG5V
T A4 S IN (L)
A MIX L OUT2
A A4 IN L
A MIX R OUT2
A A4 IN R
M GPYOUT DM
M RPROUT DM
M BPBOUT DM
T YC (H)
T AV2 THROUGH (H)
T CPS 2V IN
T CPN 2Y IN
T CPN 2C IN

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A12 A13 A15 A16 A17 A18 A19 A21 A22 A23 A24 A25

LB3015 J0JHC0000032
LB3014 J0JHC0000032

C3023 0.01
C3028 0.01
C3029 6V47
C3019 0.01

D3001 VWJ20023
C3068 15P
R3026 1K
R3090 1K
R3004 1.3K
R3003 1K
R3025 1500
Q3012 2SB1218A0L
R3001 0

C3025 0.1
C3065 0.01
C3064 0.01
R3002 10K
R3036 220
R3093 1K
R3020 0
R3019 1.5K
Q3013 2SB1218A0L

C3006 6V100
C3005 0.01
C3007 0.01
C3008 0.01
C3009 0.01
C3010 0.01
C3011 0.01
C3016 0.01

IC3001
C1AB00001805

1 BSTUNER
2 VCC1
3 TUNER
4 AGND1
5 VIDEO1 IN
6 C/S DET1
7 Y1IN
8 AGND4
9 S1/S2DET1
10 C1IN
11 AGND3
12 VIDEO4 IN
13 C/S DET2
14 Y4 IN
15 VCC3
16 S1/S2DET2
17 C4IN
18 TEST
19 VIDEO3IN
20 C/SDET3
21 Y3IN
22 ADR
23 S1/S2DET3
24 C3 IN
25 DGND1
26 Y IN
27 VDD1
28 C IN
29 DETOUT
30 SCL
31 SDA
32 CGCAOUT
33 LINE3OUT
34 LINE2OUT
35 S1/S2OUT
36 CGCAOUT
37 CAMPIN
38 CGCACONT
39 COUT
40 DGND2
41 Y/CSEPA
42 VDD2
43 SLICER VIDEO
44 AGND2
45 Y/V OUT
46 VCC2
47 CLAMP PULSE
48 CLAMP DC
49 CLAMP IN
50 Y/AMPOUT
51 Y/AMPIN
52 Y/GCAOUT
53 Y/GCACONT

R3045 1K
C3069 18P
R3046 220
R3062 1K
C3027 0.1
R3021 1K
R3047 220
C3001 0.01
R3006 1K
C3026 0.01
C3066 0.01

TL3001
R3034 0
R3035 1K
R3085 1K
C3014 0.01
C3017 0.01
C3021 0.01
C3067 0.01
C3012 0.01
C3013 0.01
C3022 0.01
R3005 1K

Q3014 2SB1218A0L (AMP)
Q3005 2SB1218A0L (AMP)
R3089 100
R3086 100

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

LB3012 J0JHC0000032

R3031 560
FL3003 ELB4B106
C3024 0.01
R3037 2700
R3041 22K
R3042 22K
R3051 33
R3056 1K
Q3007 2SB1218A0L (AMP)

R3032 560
FL3004 ELB4A029
R3043 10K
R3052 100
R3057 1K
Q3008 2SB1218A0L (AMP)

LB3013 J0JHC0000032

R3022 560
FL3005 ELB4C083
R3038 10K
R3048 100
R3058 330
Q3009 2SB1218A0L (AMP)

C3018 0.01
C3020 6V100
R3023 560
FL3006 ELB4C083
R3039 10K
R3049 100
R3059 330
Q3010 2SB1218A0L (AMP)

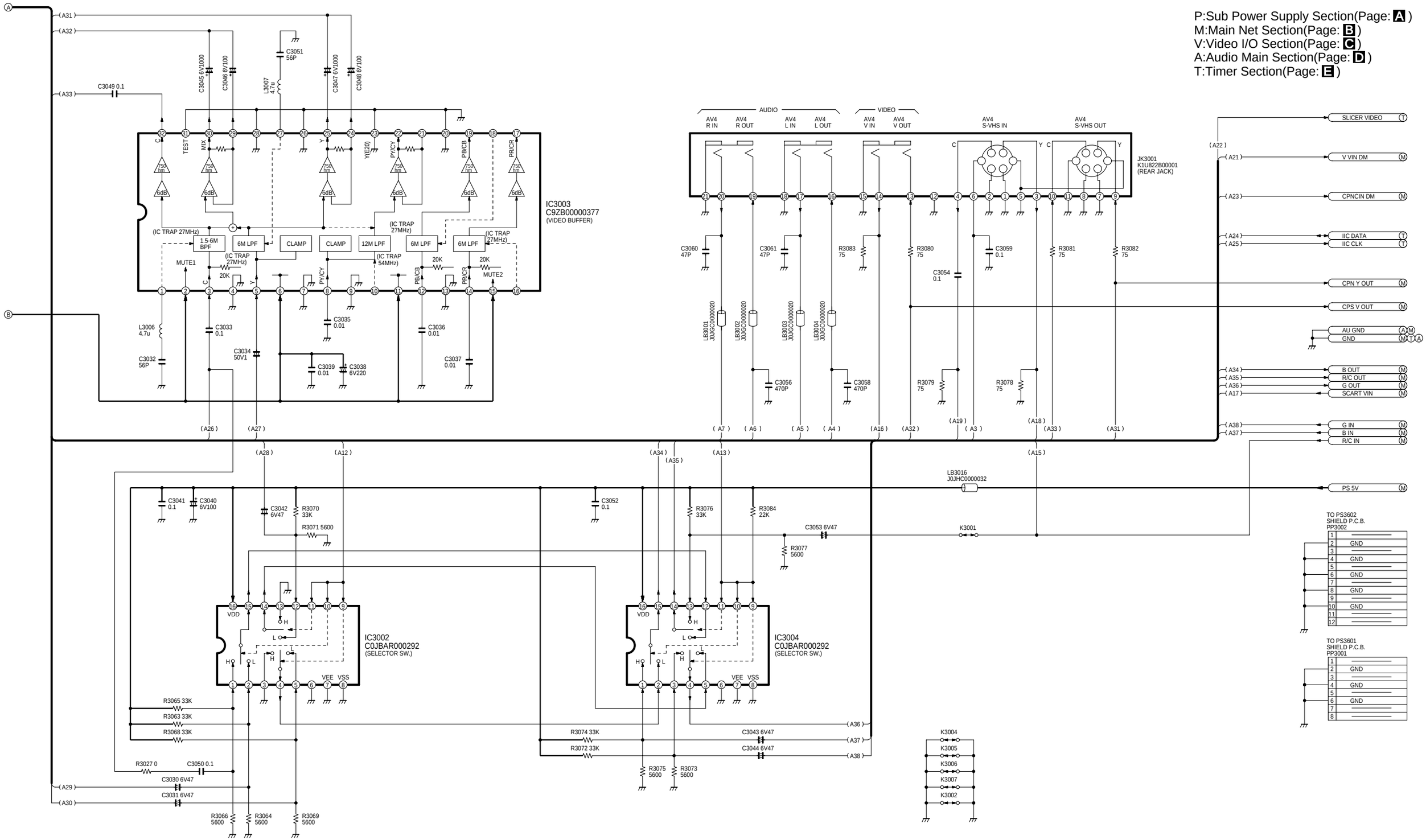
R3024 560
FL3007 ELB4C083
R3040 10K
R3050 100
R3060 330
Q3011 2SB1218A0L (AMP)

A26 A27 A28 A29 A30

DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

©

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

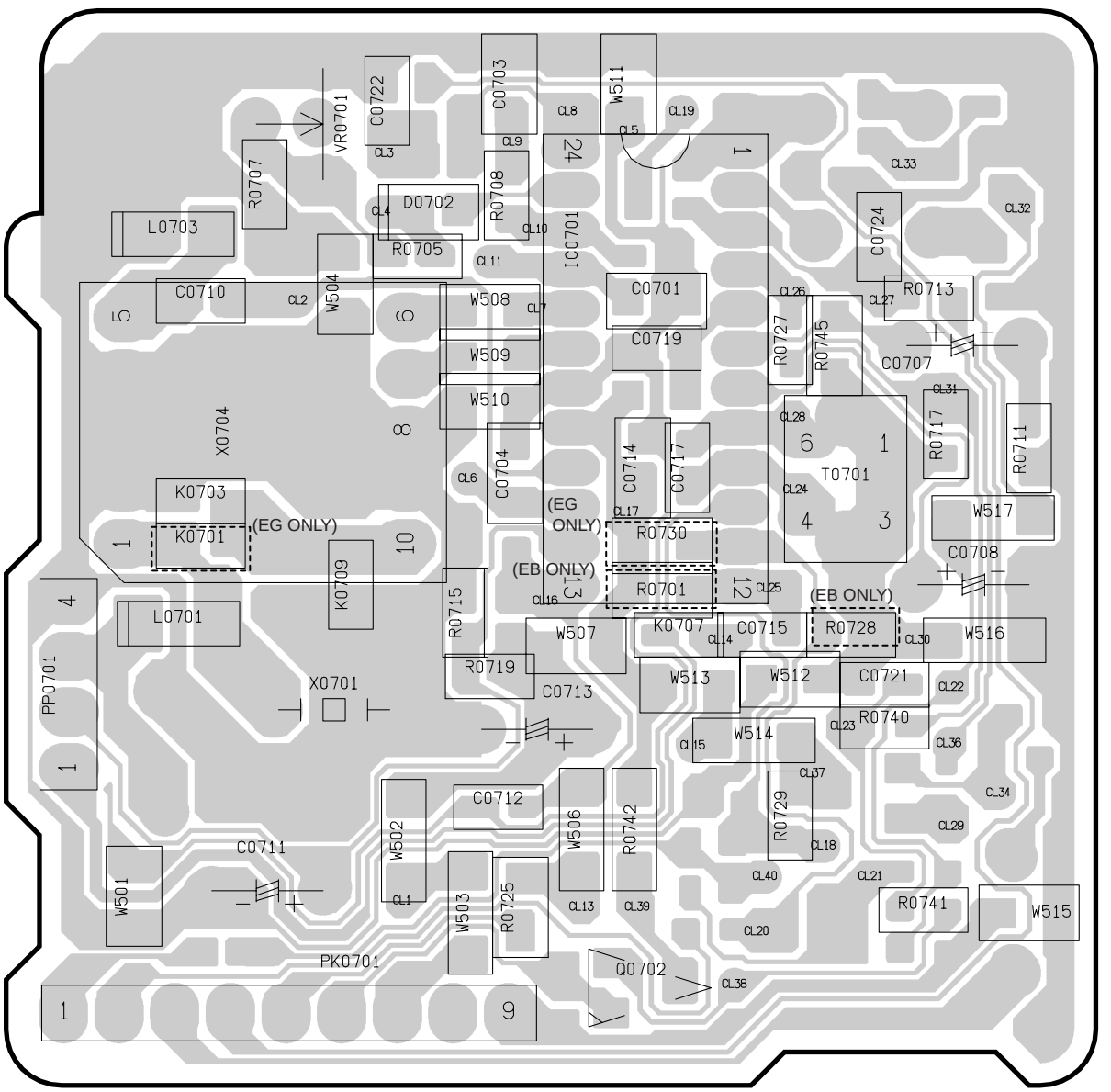


DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

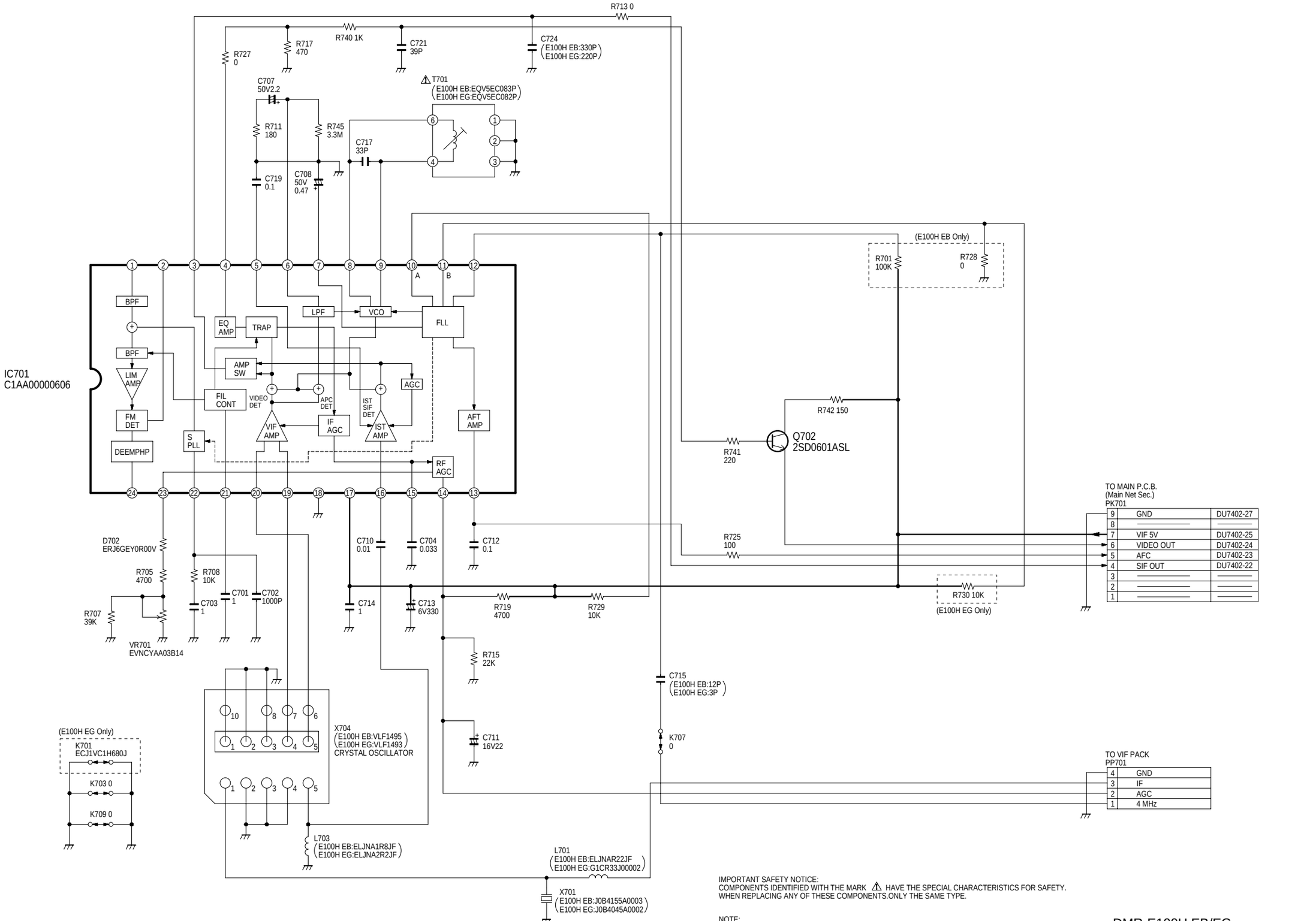
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

VIF Decoder P.C.B.



VIF Decoder P.C.B.
VEP07A23Y: DMR-E100H EG
VEP07A23Z: DMR-E100H EB



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H EB/EG
VIF Decoder Schematic Diagram

Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.5	2.5	5.0	0	0	4.9	0	-	0	0.7	0	0.3	0	1.5	1.5	0	0	2.0	0	0
PLAY	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.3	0	1.5	1.5	0	0	2.0	0	0
STOP	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.4	0	1.5	1.5	0	0	2.0	0	0

Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.6	5.0	0	4.9	2.5	2.5	2.5
PLAY	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.5	5.0	0	4.9	2.5	2.5	2.5
STOP	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.7	0.7	0.6	0.6	5.0	0	4.9	2.5	2.5	2.5

Ref No.	IC7301																			
MODE	41	42	43	44																
REC	2.5	4.9	2.5	0																
PLAY	2.5	4.9	2.5	0																
STOP	2.5	4.9	2.5	0																

Ref No.	IC7302																			
MODE	1	2	3																	
REC	5.0	0	4.9																	
PLAY	5.0	0	4.9																	
STOP	5.0	0	4.9																	

Ref No. / MODE	QR7001		
	E	C	B
REC	0	3.6	0
PLAY	0	3.6	0
STOP	0	8.8	0

Ref No.	QR7801				QR7802				QR7803				QR7804				QR7805			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	3.7	0		0	0	4.7		0	0.1	4.7		0	3.7	0		0	3.9	0	
PLAY	0	3.7	0		0	0	4.7		0	4.0	4.7		0	3.7	0		0	3.9	0	
STOP	0	3.7	0		0	0	4.7		0	4.0	4.7		0	3.7	0		0	3.9	0	

PSC 1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7502	15,34,69	Timer (Main)
	105,106,108	
	112	
IC7504	2	
IC7506	8	
IC7508	5	

PSC 2. REG.JC+5V

Ref. No.	Pin. No.	Schematic Name
IC3001	2,15,27	Video I/O (Main)
	41,45	
IC7301	3,6,28,35	Nicam/Decoder P.C.B.
IC7302	1	

PSC 3. REG.+5V

Ref. No.	Pin. No.	Schematic Name
IC7501	19,60	Timer (Main)

PSC 4. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,6,11,15	Video I/O (Main)
IC3202	6,18,26,93	AV Input (Digital)

PSC 5. REG.AU+12V

Ref. No.	Pin. No.	Schematic Name
IC4009	8	Audio Main (Main)
IC4012	8	

PSC 6. REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4001	30	Audio Main (Main)

PSC 7. PS+5V

Ref. No.	Pin. No.	Schematic Name
IC3002	16	Video I/O (Main)
IC3004	16	
IC3901	24	Scart P.C.B.
IC3902	16	

PSC 8. REG.BOOSTER+5V

Ref. No.	Pin. No.	Schematic Name
IC3901	29	Scart P.C.B.

PSC 9. REG.D+5V

Ref. No.	Pin. No.	Schematic Name
IC4005	8	Audio Main (Main)
IC4006	2	
IC4007	5	
IC6802	8	PC Card P.C.B.
IC6803	7,18,31,42	
IC6804	7,18	

PSC 10. X SW+13V

Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

PSC 11. PS+12V

Ref. No.	Pin. No.	Schematic Name
IC3901	14	Scart P.C.B.

PSC 12. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC37001	17,47,64,81	1394 DV (Digital)
	92,126,133	
	146,179,212	

PSC 13. REG.D+1.5V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
	232,237	
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

PSC 14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	34,38,44	
IC3202	61,70,79	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
	238,239	
IC3204	5	
IC3205	5	
IC3206	5	
IC4404	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3501	1,3,9,14	RTSC (Digital)
	27,43,49	
IC3502	1,3,9,14	
	27,43,49	
IC3503	7,18,33,48	
	63,75,81,93	
	104,114,128	
	142,150,157	
	168,177,187	
	198,206,213	
	216,222,229	
	237,241,245	
	246,257,268	
	280,287	

PSC 14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3603	20	MPEG4 (Digital)
IC3604	5	
IC3607	1,3,9,15,29	
	35,41,43,49	
	55,75,81	
IC3608	7,42,78,94	
	100,103,107	
	136,159,189	
	199,223,254	
IC3609	8	
IC37001	10,19,29,37	1394 DV (Digital)
	43,50,56,69	
	76,87,97	
	108,118,132	
	141,153,171	
	183,190,197	
	207,216	
IC37002	25,26,61,62	
IC37006	19	
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50009	20	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6003	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6704	12,37	
IC6801	8	PC Card P.C.B.
IC6804	31,42	
IC6805	8	
IC6806	14	
IC6810	8	

PSC 15. REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

PSC 16. REG.EN D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	

PSC 17. REG.MP D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3608	24,56,76,84	MPEG4 (Digital)
	117,132,173	
	203,231,232	
	275	

PSC 18. REG.D+2.5V

Ref. No.	Pin. No.	Schematic Name
IC3503	14,30,59,91	RTSC (Digital)
	124,149,184	
	199,227,260	
	281	

PSC 19. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3202	38,42,43,47	AV Input (Digital)
	53,80,84	
IC3203	30	
IC3402	30	AV Encoder (Digital)
IC37002	30,31,42	1394 DV (Digital)
	51,52,56	
IC50003	105,112,118	AV Decoder (Digital)

PSC 20. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

PSC 21. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

PSC 22. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC37003	12,31,43	1394 DV (Digital)
IC37008	5	
IC37011	5	

PSC 23. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

PSC 24. REG.DC+5V

Ref. No.	Pin. No.	Schematic Name
IC6809	2	PC Card P.C.B.

Ref No.	IC1									IC102				IC104							
MODE	1	2	3	4	5	6	7	8		K	A	R		K	A	R					
REC	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4					
PLAY	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4					
STOP	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4					
Ref No.	IC105					IC301															
MODE	1	2	3	4		1	2	3	4	5	6	7	8								
REC	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0								
PLAY	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0								
STOP	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0								
Ref No.	IC302																				
MODE	1	2	3	4	5	6	7	8													
REC	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0													
PLAY	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0													
STOP	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0													
Ref No.	Q1				Q2				Q3				Q4				Q101				
MODE	E	C	B		E	C	B		S	D	G		E	C	B		E	C	B		
REC	0	0	0.5		0	2.2	0.1		0	470	9.8		0	2.2	0		5.9	0.3	5.9		
PLAY	0	0	0.5		0	2.2	0.1		0	360	9.8		0	2.2	0		5.9	0.3	5.9		
STOP	0	0	0.5		0	2.2	0.1		0	320	9.8		0	2.2	0		5.9	0.3	5.9		
Ref No.	Q102				Q104				Q105				Q106								
MODE	E	C	B		E	C	B		E	C	B		E	C	B						
REC	0	5.9	0.3		0	0	0.7		0.7	0.7	2.6		14.0	14.0	0						
PLAY	0	5.9	0.3		0	0	0.6		0.6	0.7	2.6		14.0	14.0	0						
STOP	0	5.9	0.3		0	0	0.6		0.6	0.7	2.6		14.0	14.0	0						
Ref No.	Q107								Q108				Q109				Q113				
MODE	1	2	3	4	5	6	7	8		E	C	B		E	C	B		S	D	G	
REC	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1	
PLAY	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1	
STOP	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1	
Ref No.	Q115				Q301				Q302				Q303				Q305				
MODE	E	C	B		S	D	G		E	C	B		E	C	B		E	C	B		
REC	14.0	14.0	13.3		1.9	4.5	5.1		4.9	14.0	4.4		4.9	0	4.4		14.0	4.4	13.7		
PLAY	14.0	14.0	13.3		1.9	4.4	5.1		5.1	14.0	4.6		5.1	0	4.5		14.0	4.5	13.7		
STOP	14.0	14.0	13.3		1.9	4.3	5.1		5.0	14.0	4.5		5.0	0	4.5		14.0	4.5	13.7		
Ref No.	Q307				Q308				Q310				Q311				Q312				
MODE	E	C	B		E	C	B		S	D	G		E	C	B		E	C	B		
REC	0	9.4	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.6	14.0	7.1		7.6	0	7.2		
PLAY	0	9.3	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.4	14.0	7.0		7.4	0	7.0		
STOP	0	9.3	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.4	14.0	6.9		7.4	0	6.9		
Ref No.	Q313				Q314				Q315												
MODE	E	C	B		E	C	B		E	C	B										
REC	14.0	7.1	13.6		0	7.2	0.2		14.0	13.6	13.7										
PLAY	14.0	7.0	13.5		0	7.2	0.2		14.0	13.6	13.7										
STOP	14.0	6.9	13.6		0	7.2	0.2		14.0	13.6	13.7										

Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	0
PLAY	5.5	5.5	0	0	1.5	0	2.1	0	0	5.5	5.5	4.9	2.1	12.0	5.5	5.5	0	1.8	3.5	11.6
STOP	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	0

Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	0	4.9	4.9
PLAY	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	5.5	0	4.9	4.9
STOP	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	0	4.9	4.9

Ref No.	IC3901			
MODE	41	42	43	44
REC	0	4.9	4.9	0
PLAY	0	4.9	4.9	0
STOP	0	4.9	4.9	0

Ref No.	IC3902																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
PLAY	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
STOP	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				

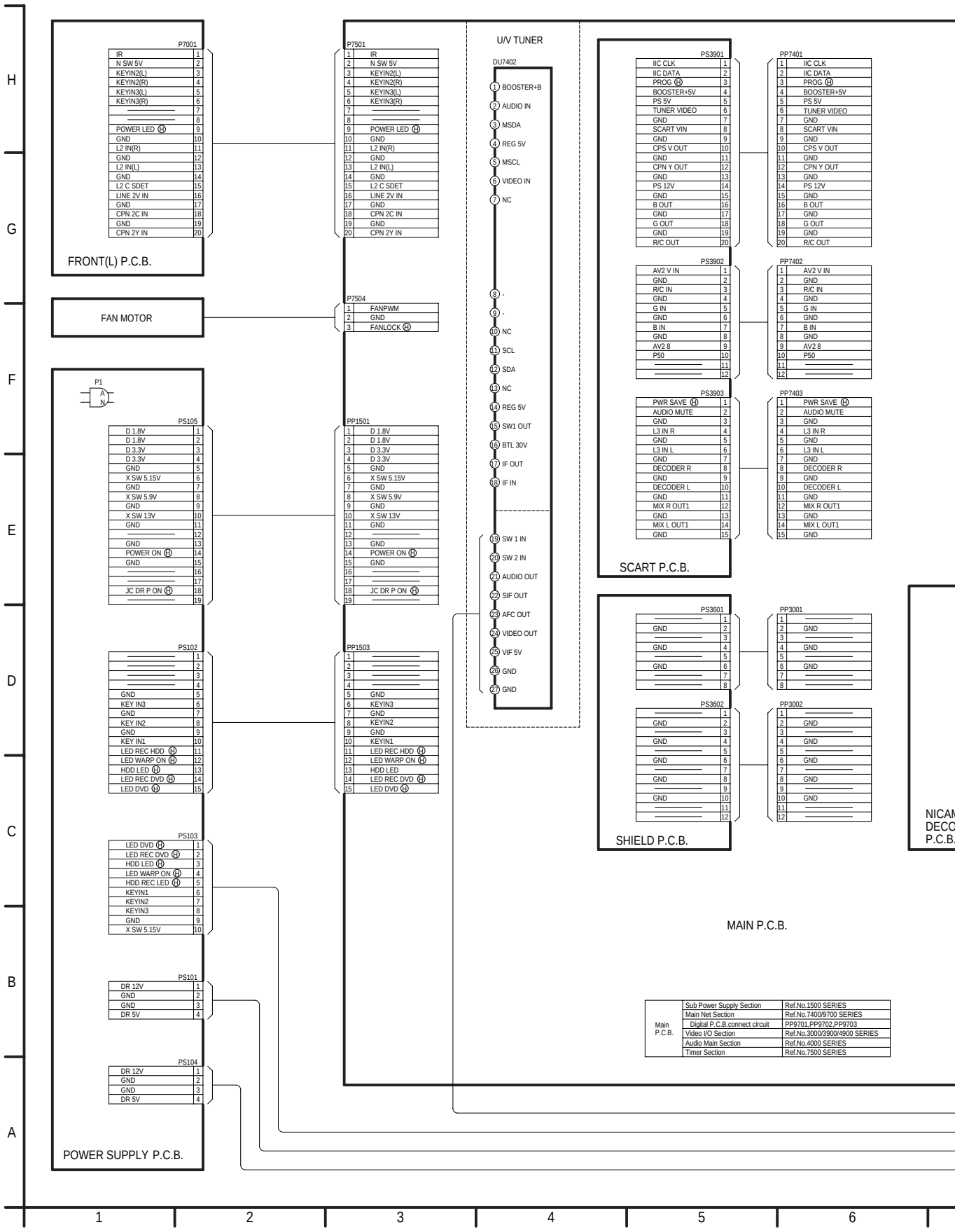
Ref No.	Q3901				Q3905				Q3906				Q3908				Q3909			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.1	5.0	2.7		0.3	0.3	0		5.0	0.2	5.0		5.0	-0.2	5.0		0	0	-0.1	
PLAY	2.1	5.0	2.7		0.3	0.3	0		5.0	0.3	5.0		5.0	-0.2	5.0		0	0	-0.4	
STOP	2.1	5.0	2.7		0.2	0.2	0		5.0	0.2	5.0		5.0	-0.3	5.0		0	0	-0.3	

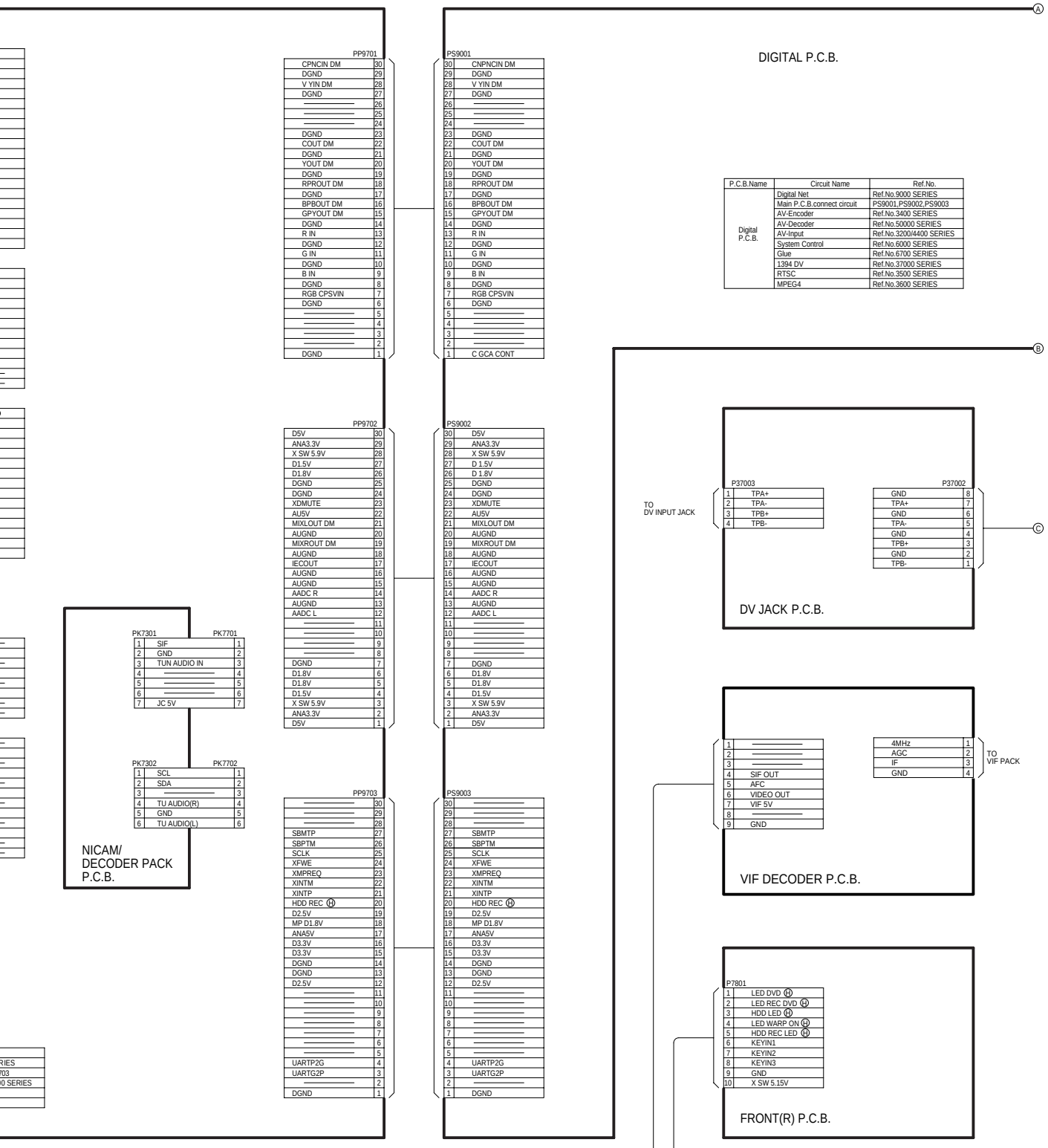
Ref No.	Q3910		
MODE	E	C	B
REC	0	0	-0.3
PLAY	0	0	-0.4
STOP	0	0	-0.3

Ref No.	QR3908				QR3909				QR3913				QR3914				QR3915			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	3.5		0	5.0	0		0	5.0	0		0.3	4.2	0		0.3	4.4	0	
PLAY	0	0	3.5		0	5.0	0		0	5.0	0.2		0.3	4.2	0		0.3	4.3	0	
STOP	0	0	3.5		0	5.0	0		0	5.0	0		0.2	4.2	0		0.2	4.4	0	

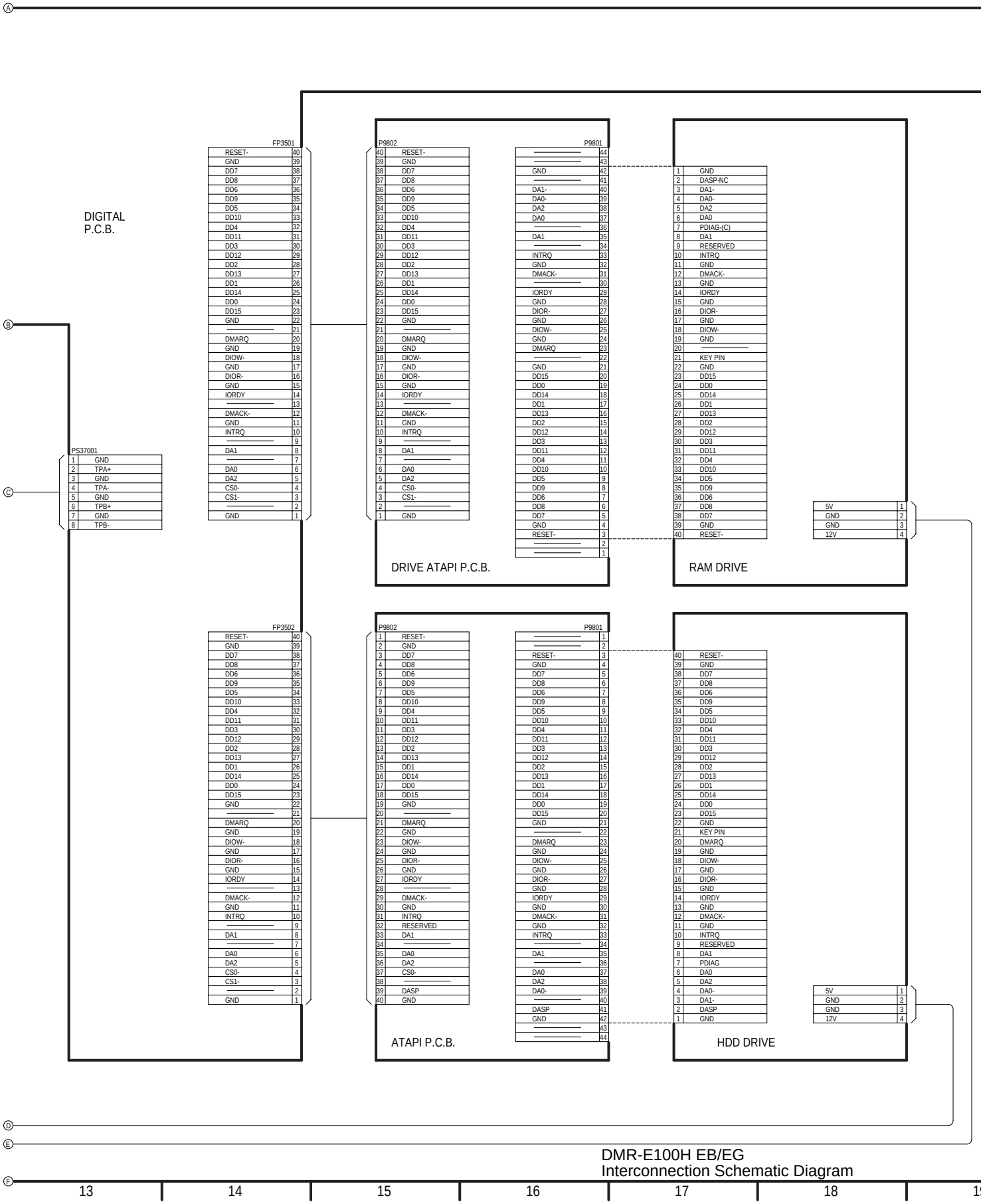
14 Schematic Diagram

14.1. Interconnection Schematic Diagram

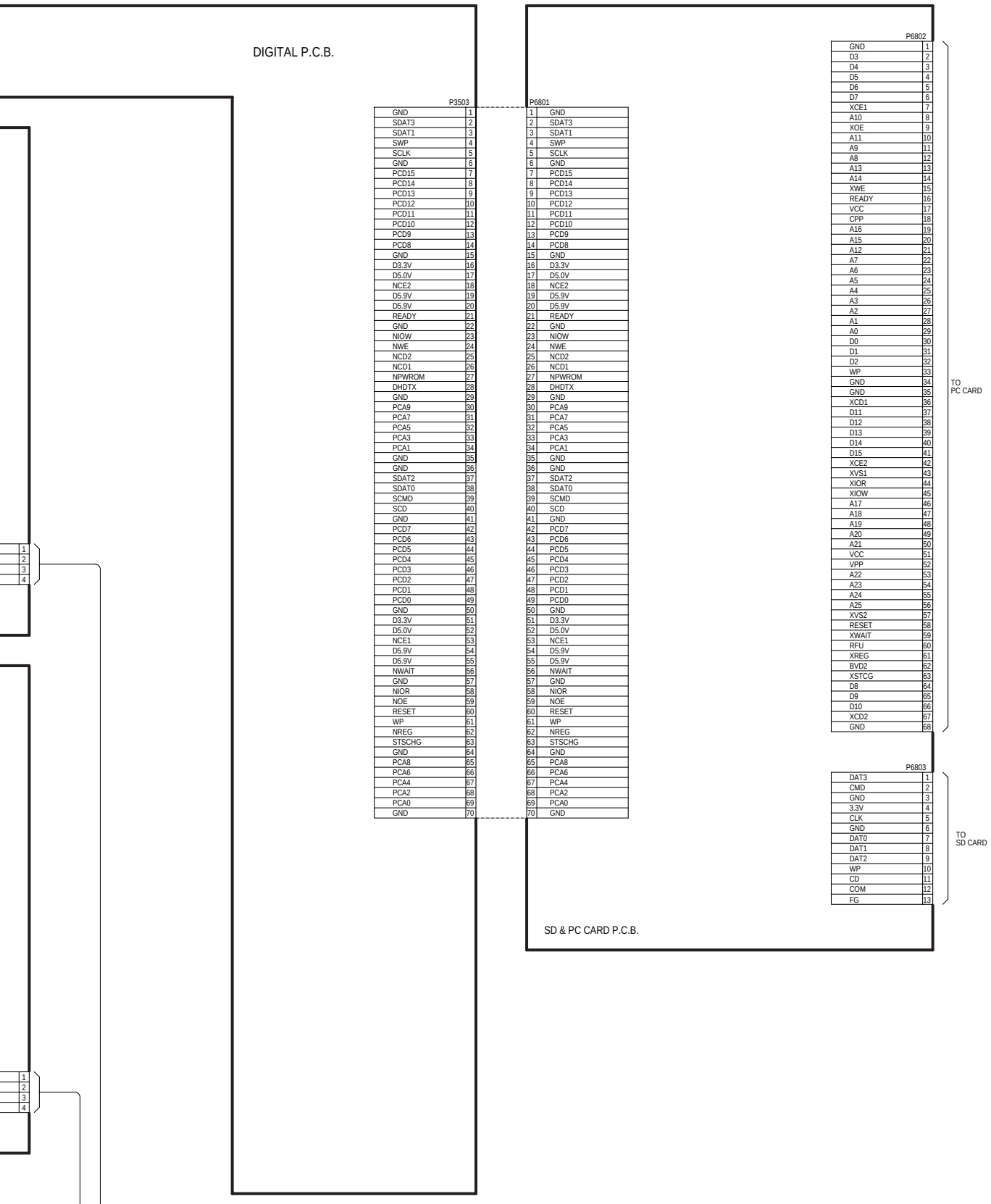




DMR-E100H EB/EG
Interconnection Schematic Diagram



DMR-E100H EB/EG
Interconnection Schematic Diagram



P3503		P6801	
GND	1	1	GND
SDAT3	2	2	SDAT3
SDAT1	3	3	SDAT1
SWP	4	4	SWP
SCLK	5	5	SCLK
GND	6	6	GND
PCD15	7	7	PCD15
PCD14	8	8	PCD14
PCD13	9	9	PCD13
PCD12	10	10	PCD12
PCD11	11	11	PCD11
PCD10	12	12	PCD10
PCD9	13	13	PCD9
PCD8	14	14	PCD8
GND	15	15	GND
D3.3V	16	16	D3.3V
D5.0V	17	17	D5.0V
NCE2	18	18	NCE2
D5.9V	19	19	D5.9V
D5.9V	20	20	D5.9V
READY	21	21	READY
GND	22	22	GND
NIOW	23	23	NIOW
NWE	24	24	NWE
NCD2	25	25	NCD2
NCD1	26	26	NCD1
NPWROM	27	27	NPWROM
DHDTX	28	28	DHDTX
GND	29	29	GND
PCA9	30	30	PCA9
PCA7	31	31	PCA7
PCA5	32	32	PCA5
PCA3	33	33	PCA3
PCA1	34	34	PCA1
GND	35	35	GND
GND	36	36	GND
SDAT2	37	37	SDAT2
SDAT0	38	38	SDAT0
SCMD	39	39	SCMD
SCD	40	40	SCD
GND	41	41	GND
PCD7	42	42	PCD7
PCD6	43	43	PCD6
PCD5	44	44	PCD5
PCD4	45	45	PCD4
PCD3	46	46	PCD3
PCD2	47	47	PCD2
PCD1	48	48	PCD1
PCD0	49	49	PCD0
GND	50	50	GND
D3.3V	51	51	D3.3V
D5.0V	52	52	D5.0V
NCE1	53	53	NCE1
D5.9V	54	54	D5.9V
D5.9V	55	55	D5.9V
NWAIT	56	56	NWAIT
GND	57	57	GND
NIOR	58	58	NIOR
NOE	59	59	NOE
RESET	60	60	RESET
WP	61	61	WP
NREG	62	62	NREG
STSCHG	63	63	STSCHG
GND	64	64	GND
PCA8	65	65	PCA8
PCA6	66	66	PCA6
PCA4	67	67	PCA4
PCA2	68	68	PCA2
PCA0	69	69	PCA0
GND	70	70	GND

P6802	
GND	1
D3	2
D4	3
D5	4
D6	5
D7	6
XCE1	7
A10	8
XOE	9
A11	10
A9	11
A8	12
A13	13
A14	14
XWE	15
READY	16
VCC	17
CPP	18
A16	19
A15	20
A12	21
A7	22
A6	23
A5	24
A4	25
A3	26
A2	27
A1	28
A0	29
D0	30
D1	31
D2	32
WP	33
GND	34
GND	35
XCD1	36
D11	37
D12	38
D13	39
D14	40
D15	41
XCE2	42
XVS1	43
XIOR	44
XIOW	45
A17	46
A18	47
A19	48
A20	49
A21	50
VCC	51
VPP	52
A22	53
A23	54
A24	55
A25	56
XVS2	57
RESET	58
XWAIT	59
RFU	60
XREG	61
BVD2	62
XSTCG	63
D8	64
D9	65
D10	66
XCD2	67
GND	68

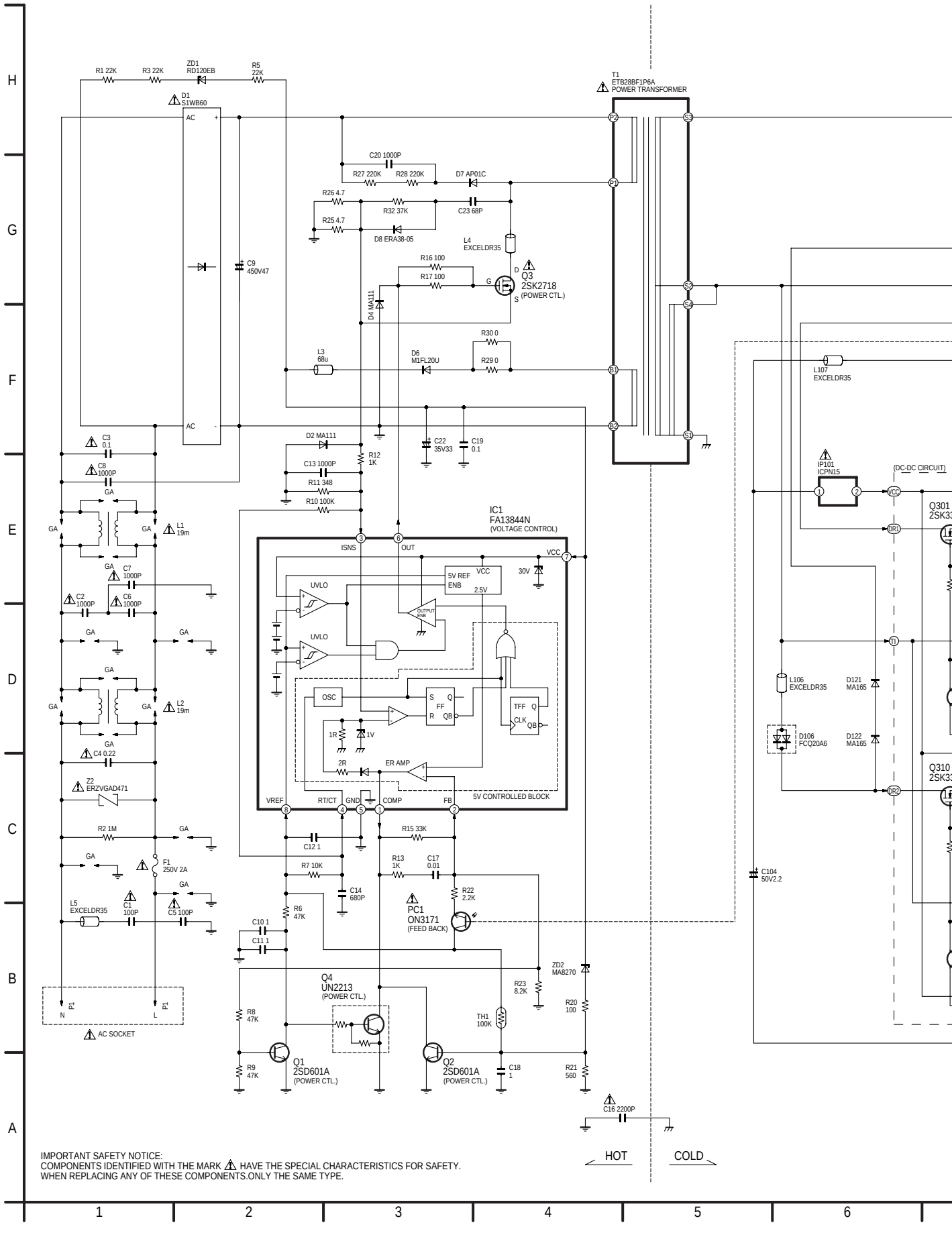
P6803	
DAT3	1
CMD	2
GND	3
3.3V	4
CLK	5
GND	6
DAT0	7
DAT1	8
DAT2	9
WP	10
CD	11
COM	12
FG	13

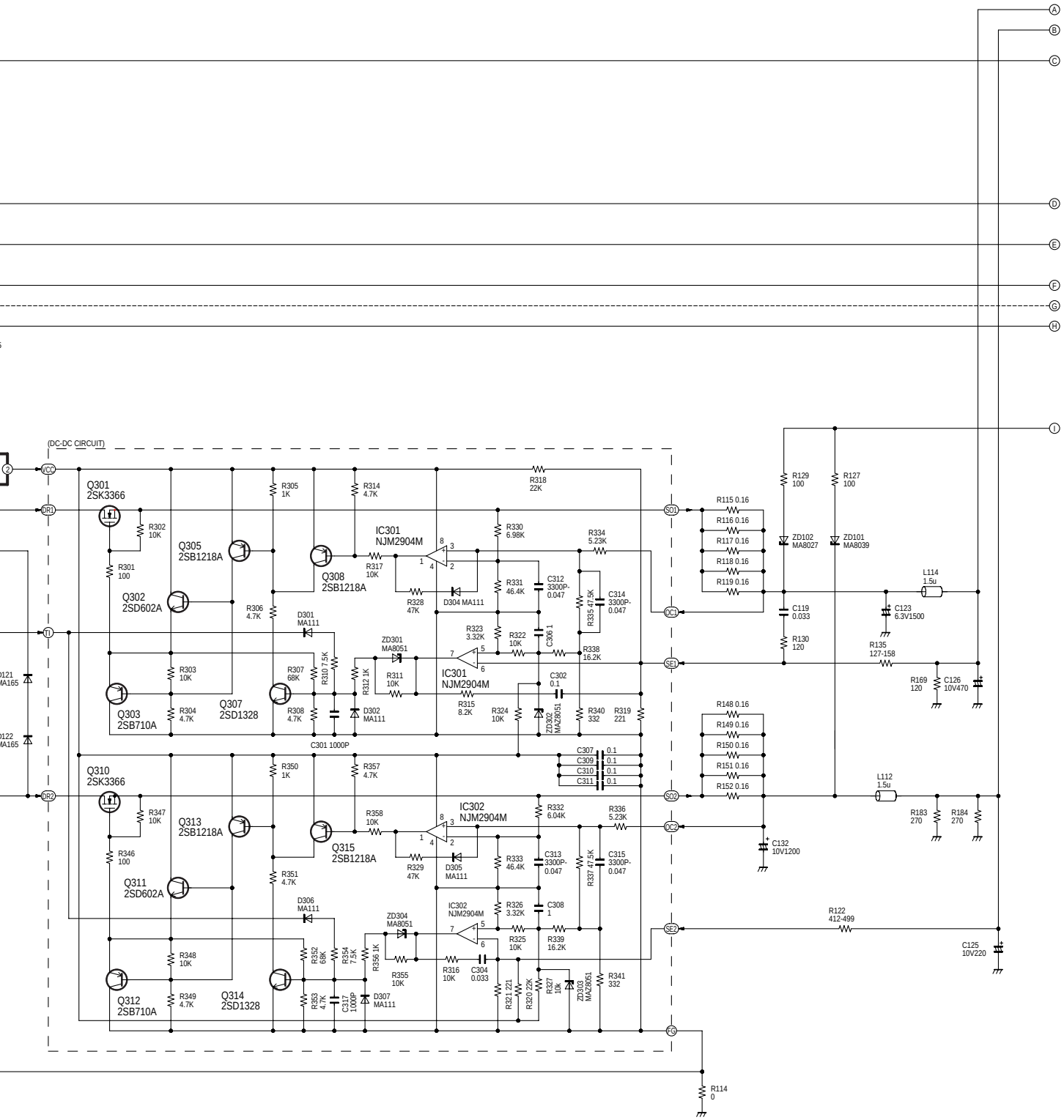
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Interconnection Schematic Diagram

19 20 21 22 23 24

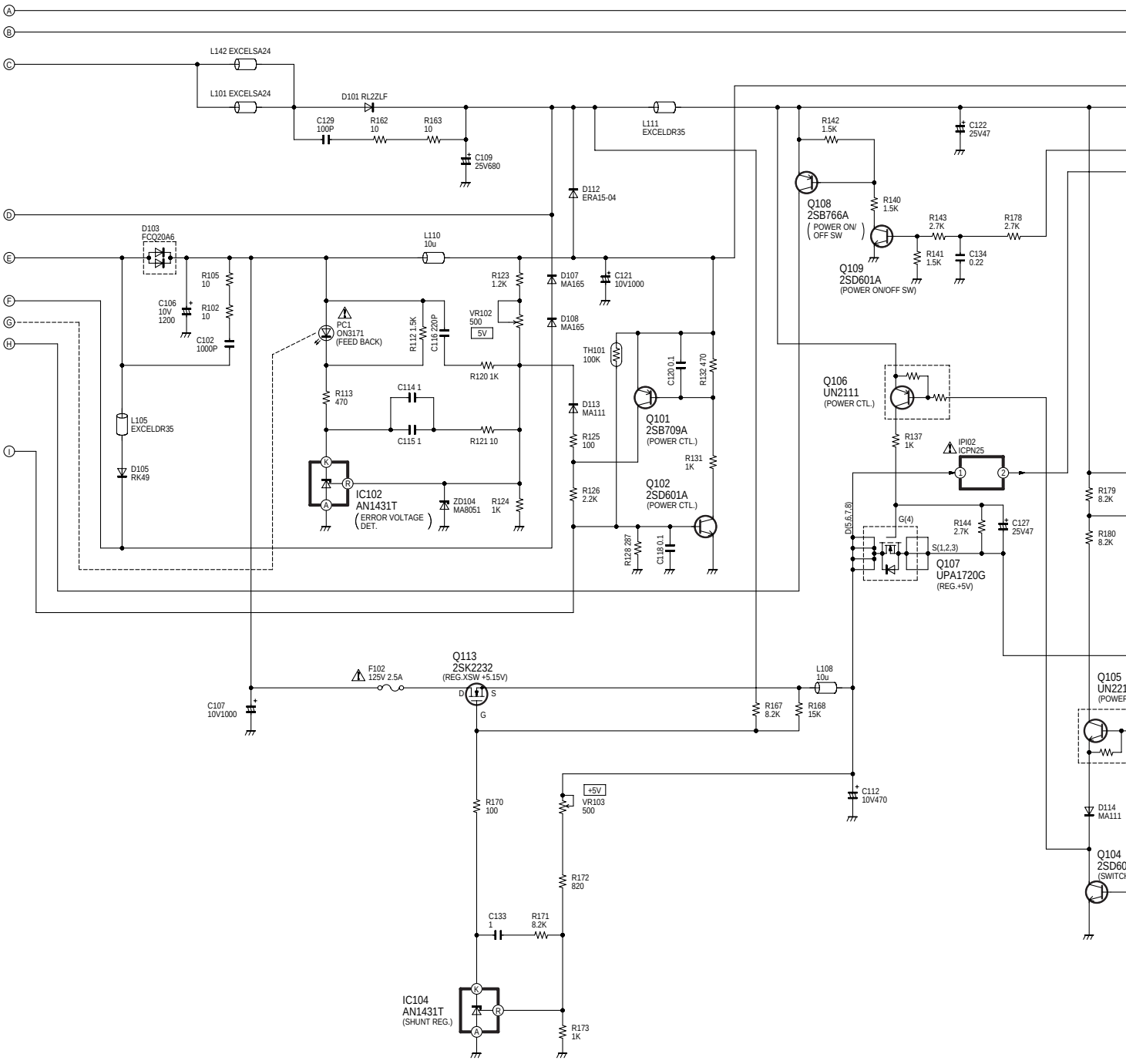
14.2. Main Power Supply Schematic Diagram





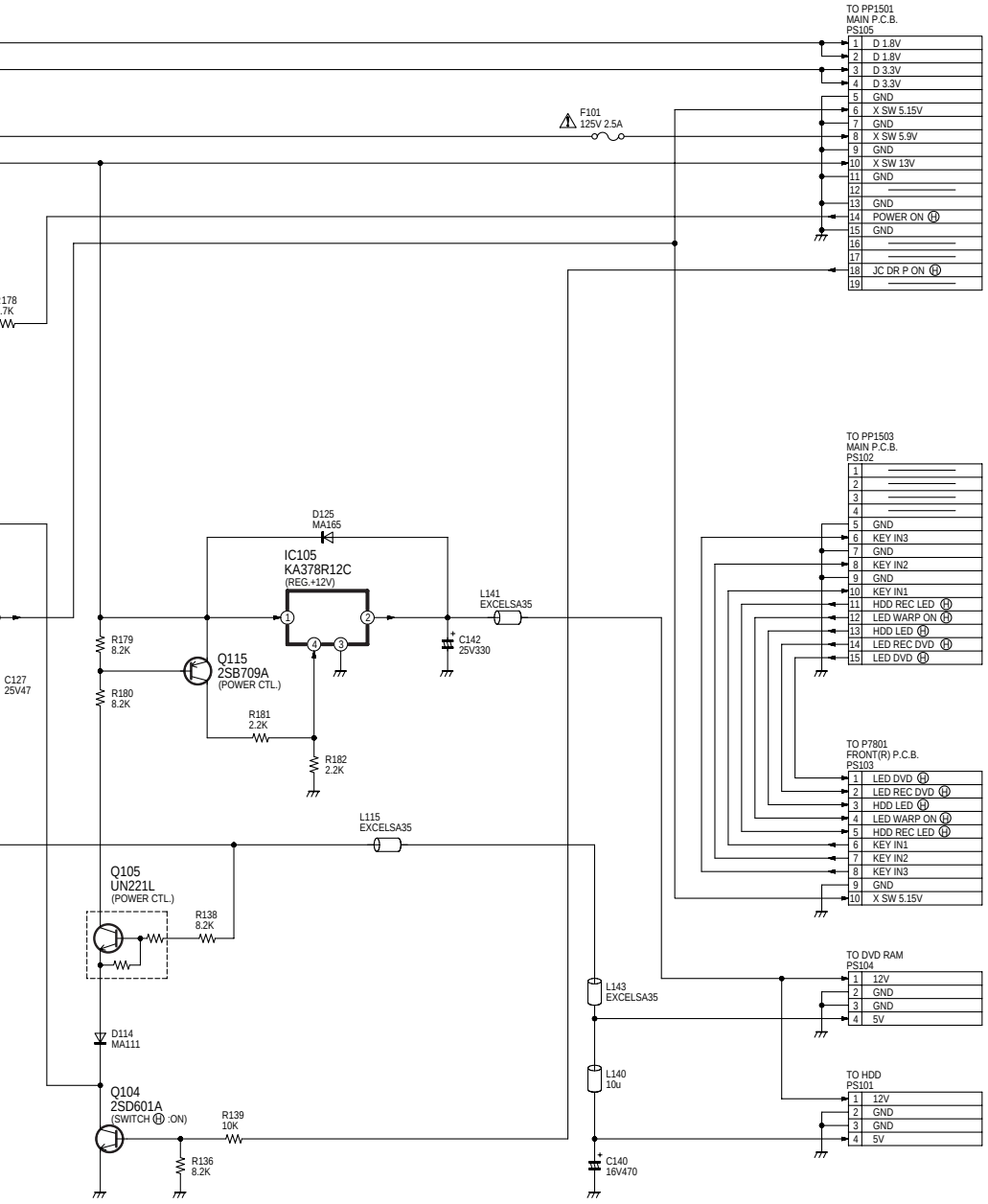
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Main Power Supply
Schematic Diagram



DMR-E100H EB/EG
Main Power Supply
Schematic Diagram

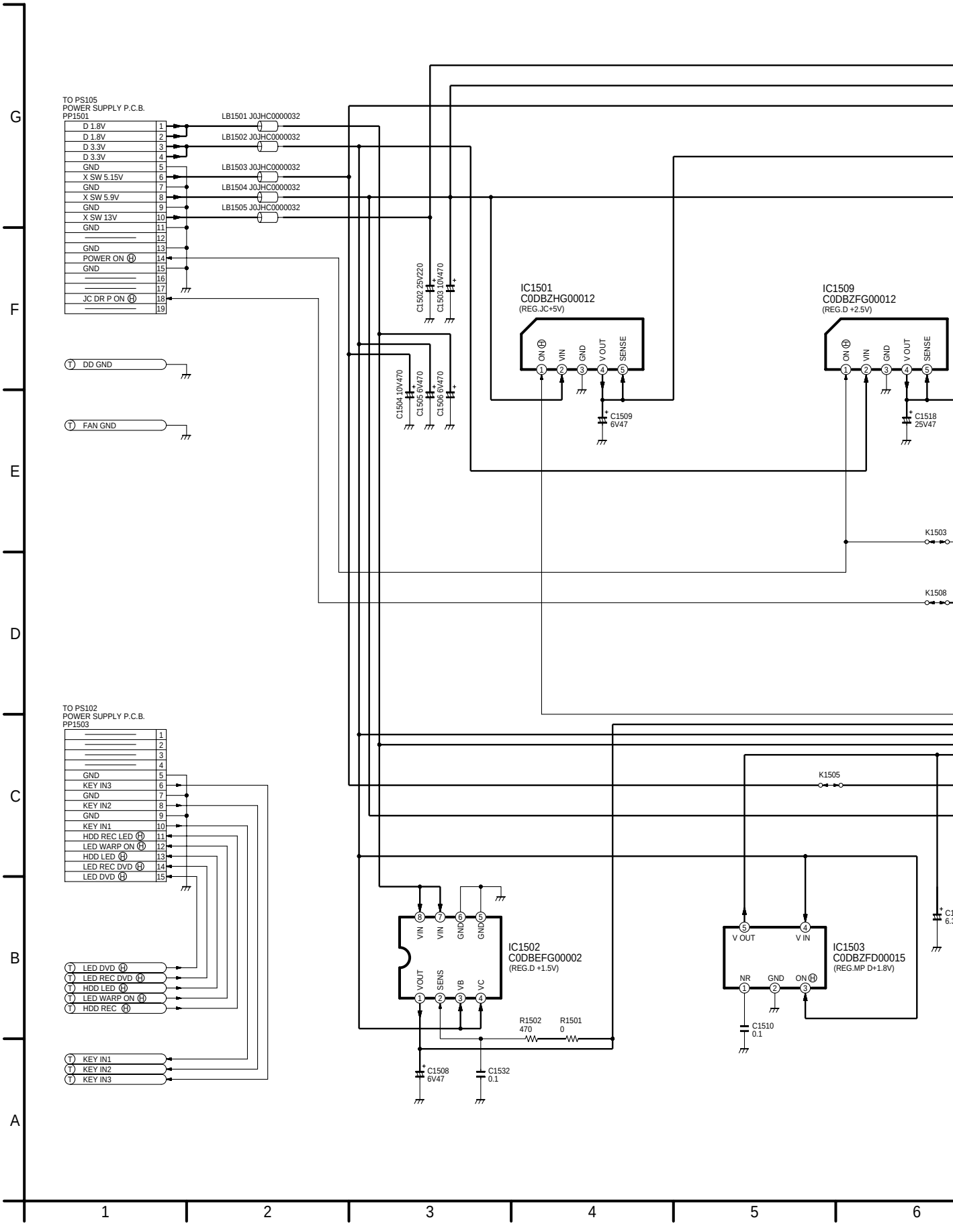
13 | 14 | 15 | 16 | 17 | 18 | 19

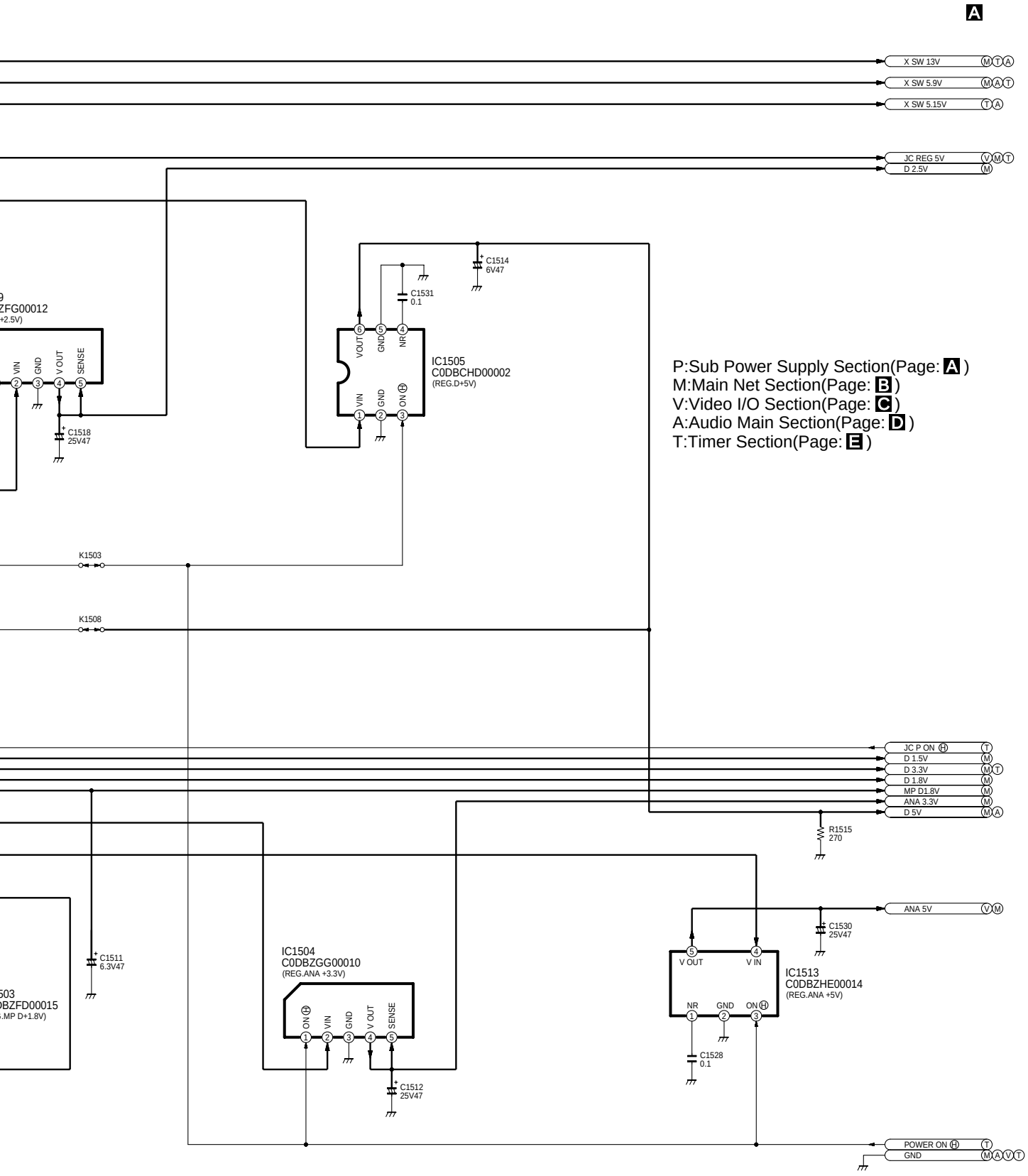


DMR-E100H EB/EG
Main Power Supply
Schematic Diagram

19	20	21	22	23

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)





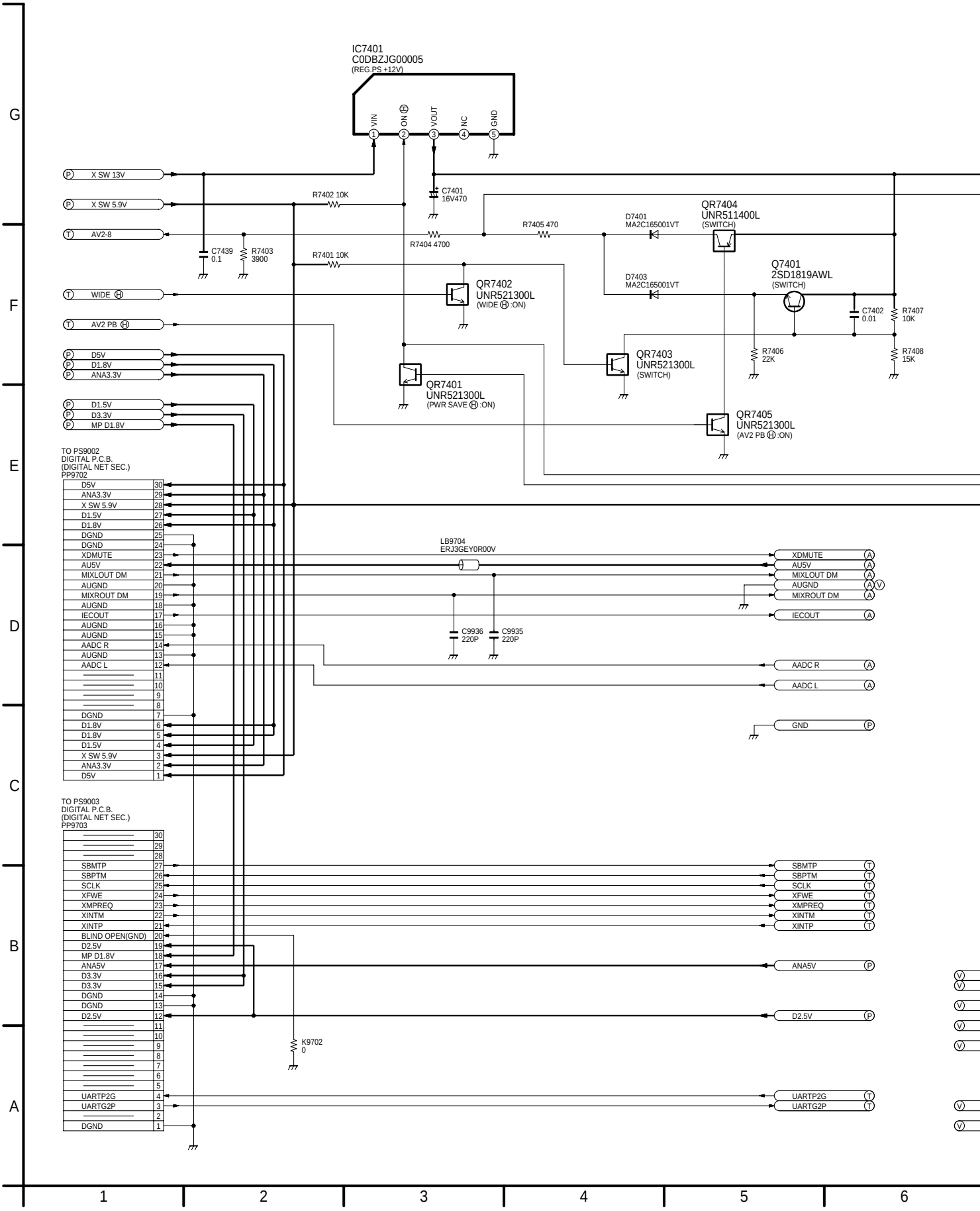
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

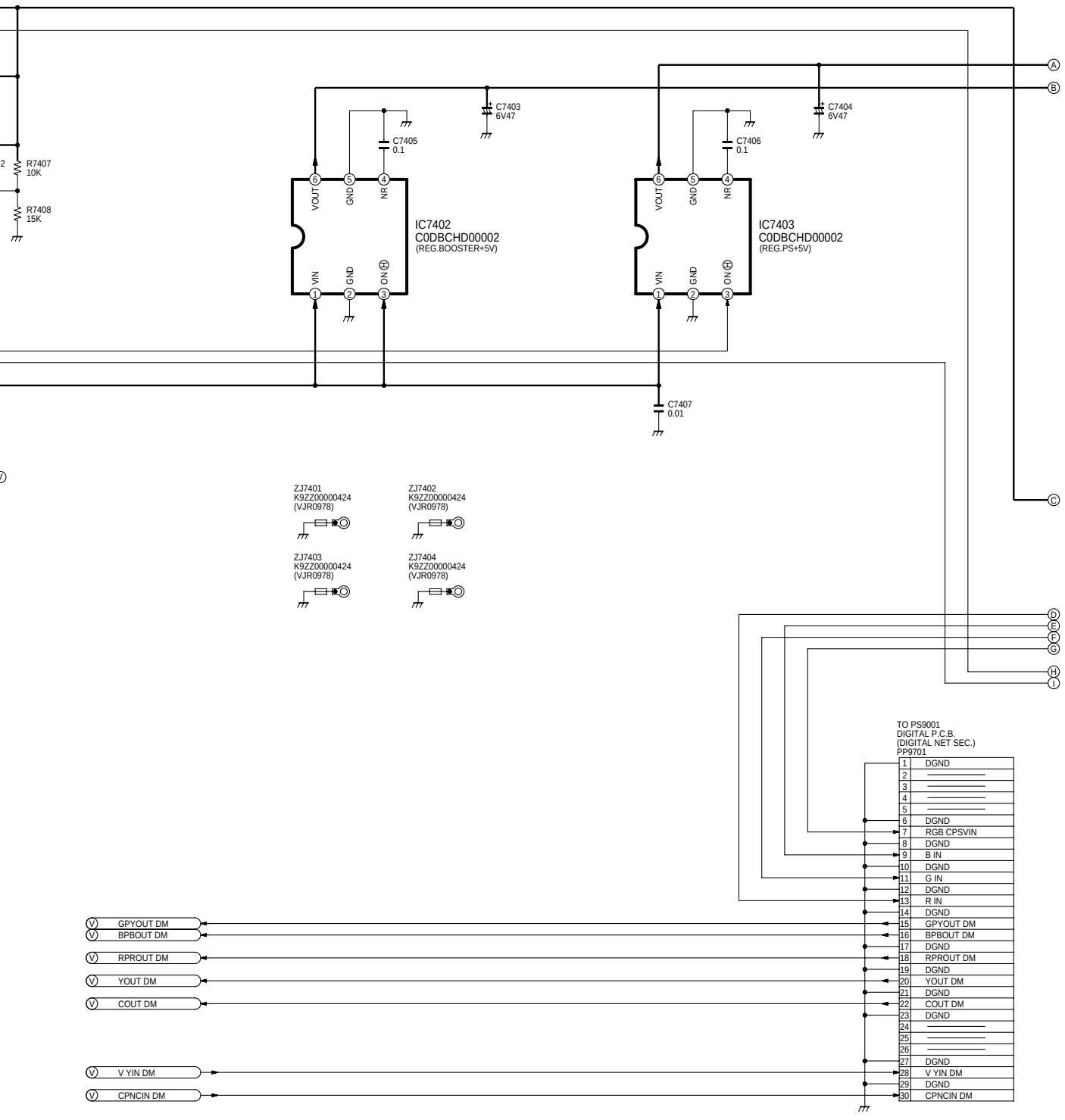
DMR-E100H EB/EG
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)

6 | 7 | 8 | 9 | 10 | 11

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



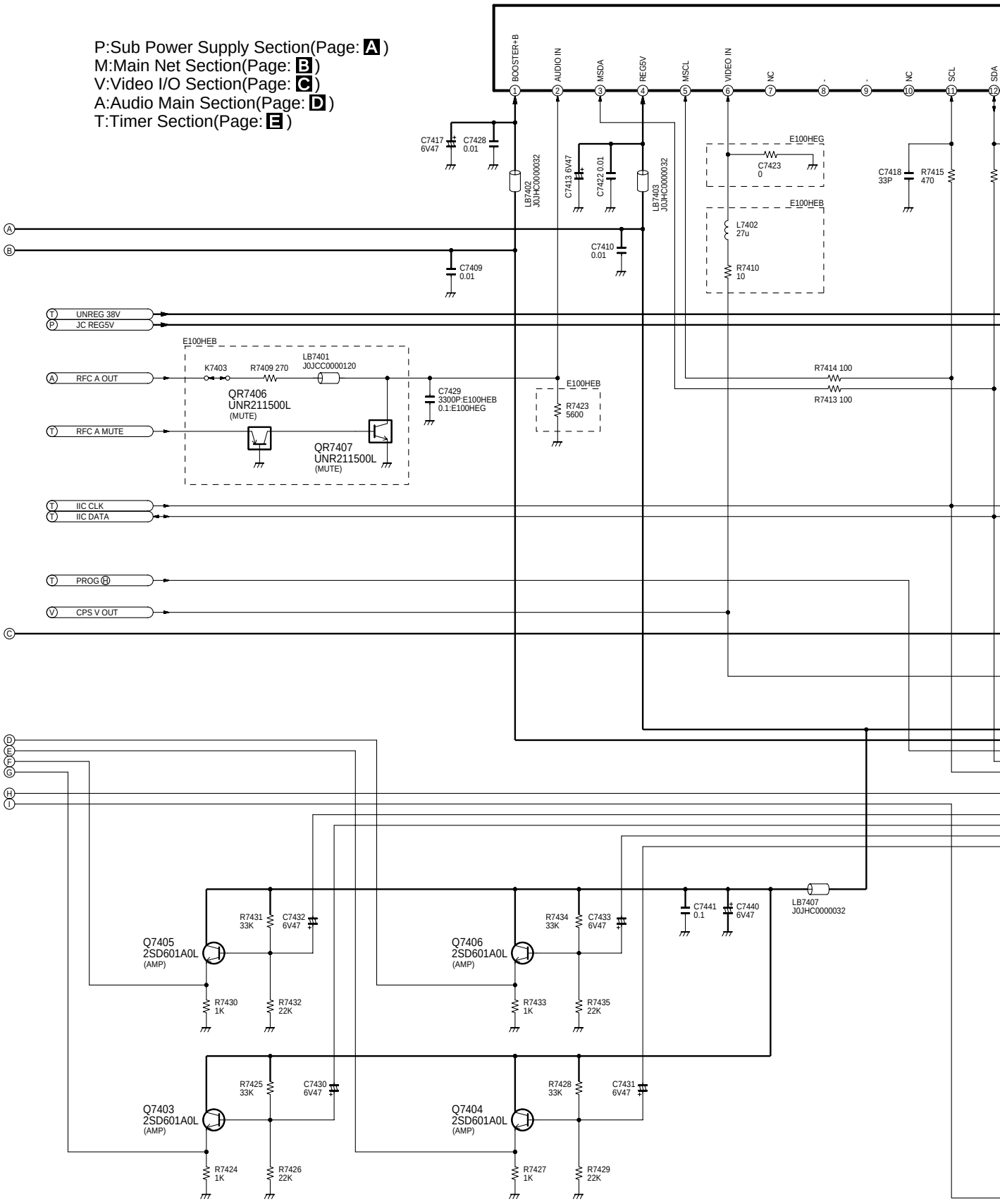
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



DMR-E100H EB/EG
Main Net Section(Main P.C.B.(2/5)) Schematic Diagram(M)

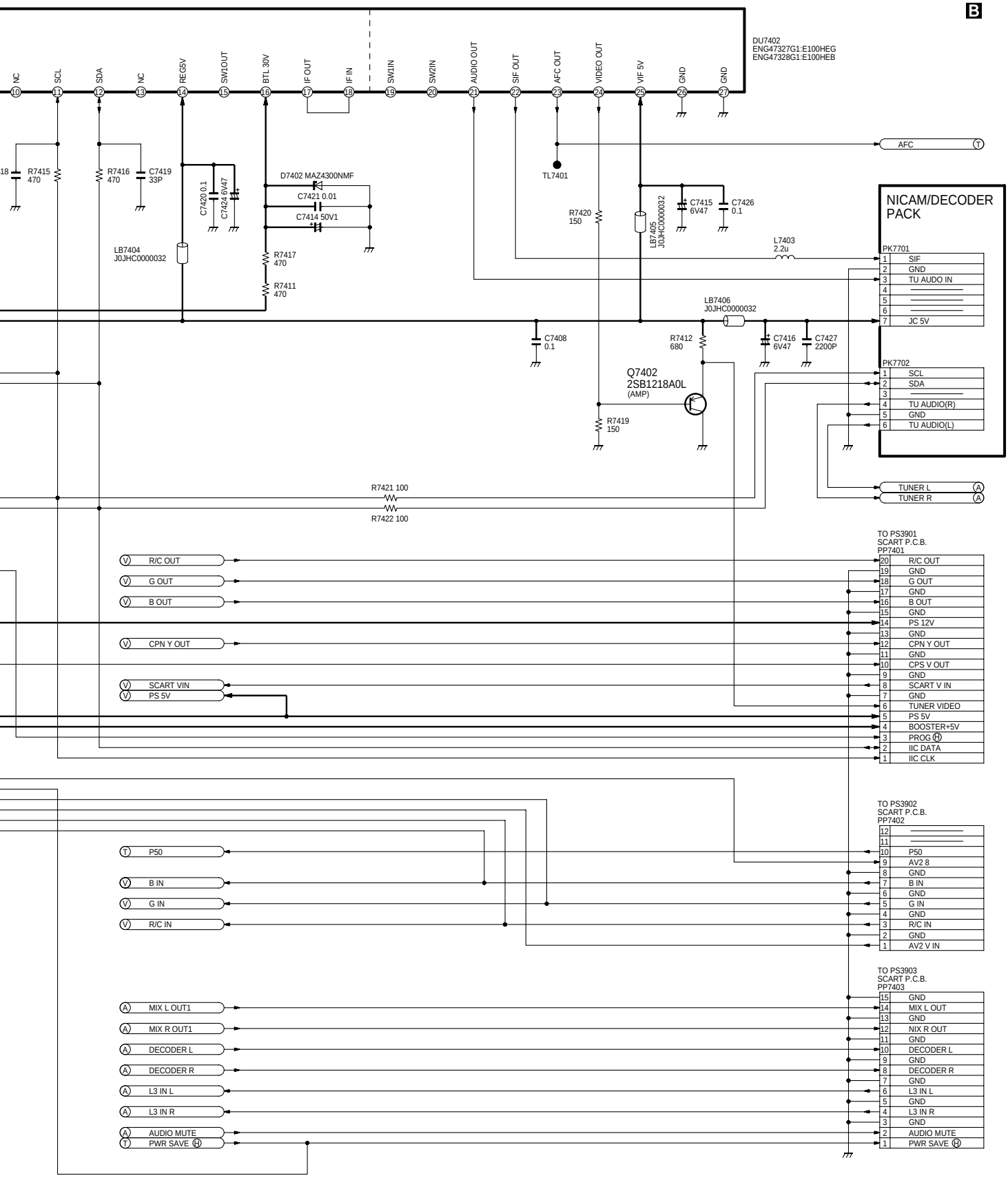
6 | 7 | 8 | 9 | 10 | 11

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



DMR-E100H EB/EG
Main Net Section(Main P.C.B.(2/5)) Schematic Diagram(M)

12 13 14 15 16 17

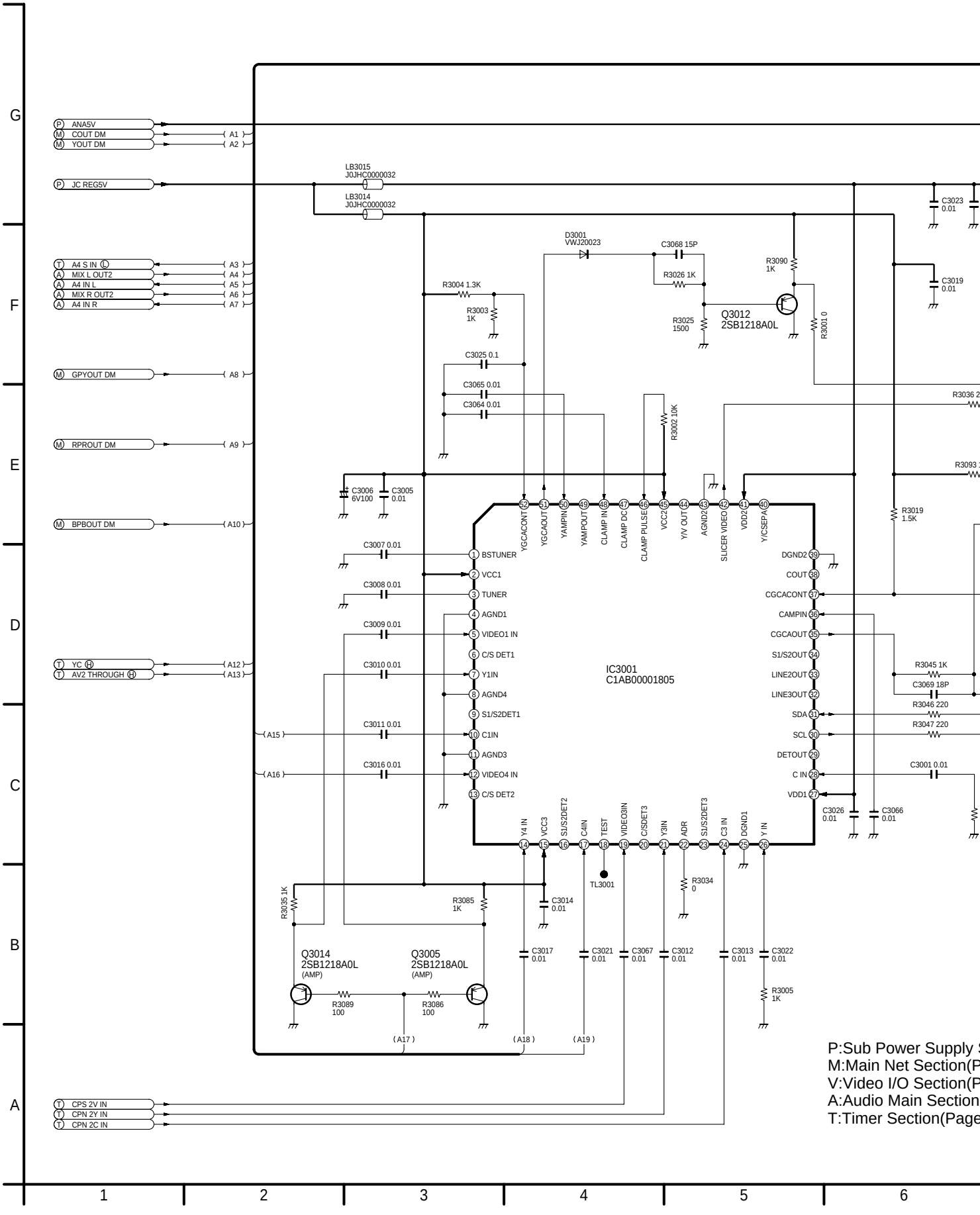


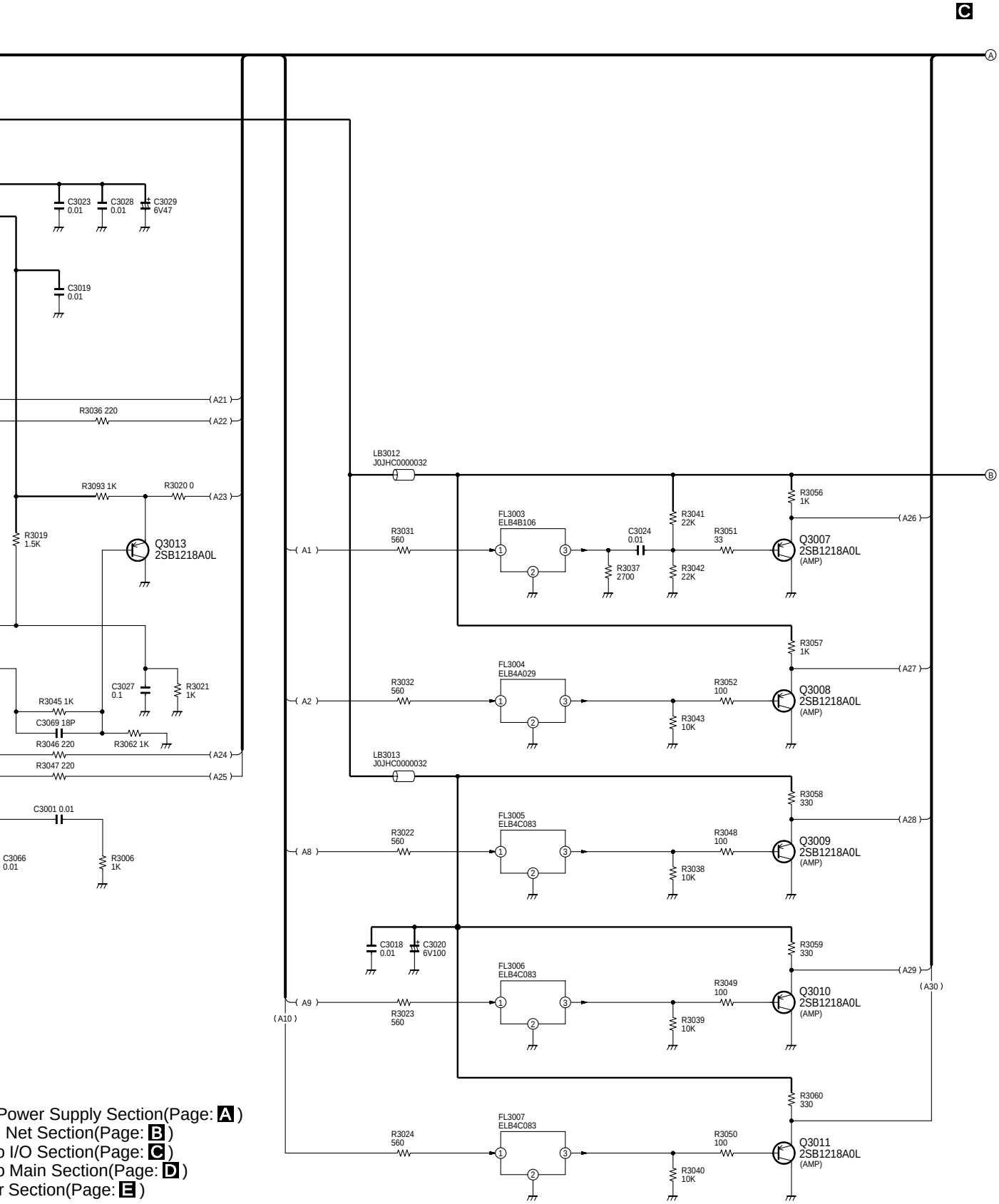
m(M)

DMR-E100H EB/EG
Main Net Section(Main P.C.B.(2/5)) Schematic Diagram(M)

17	18	19	20	21	22

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

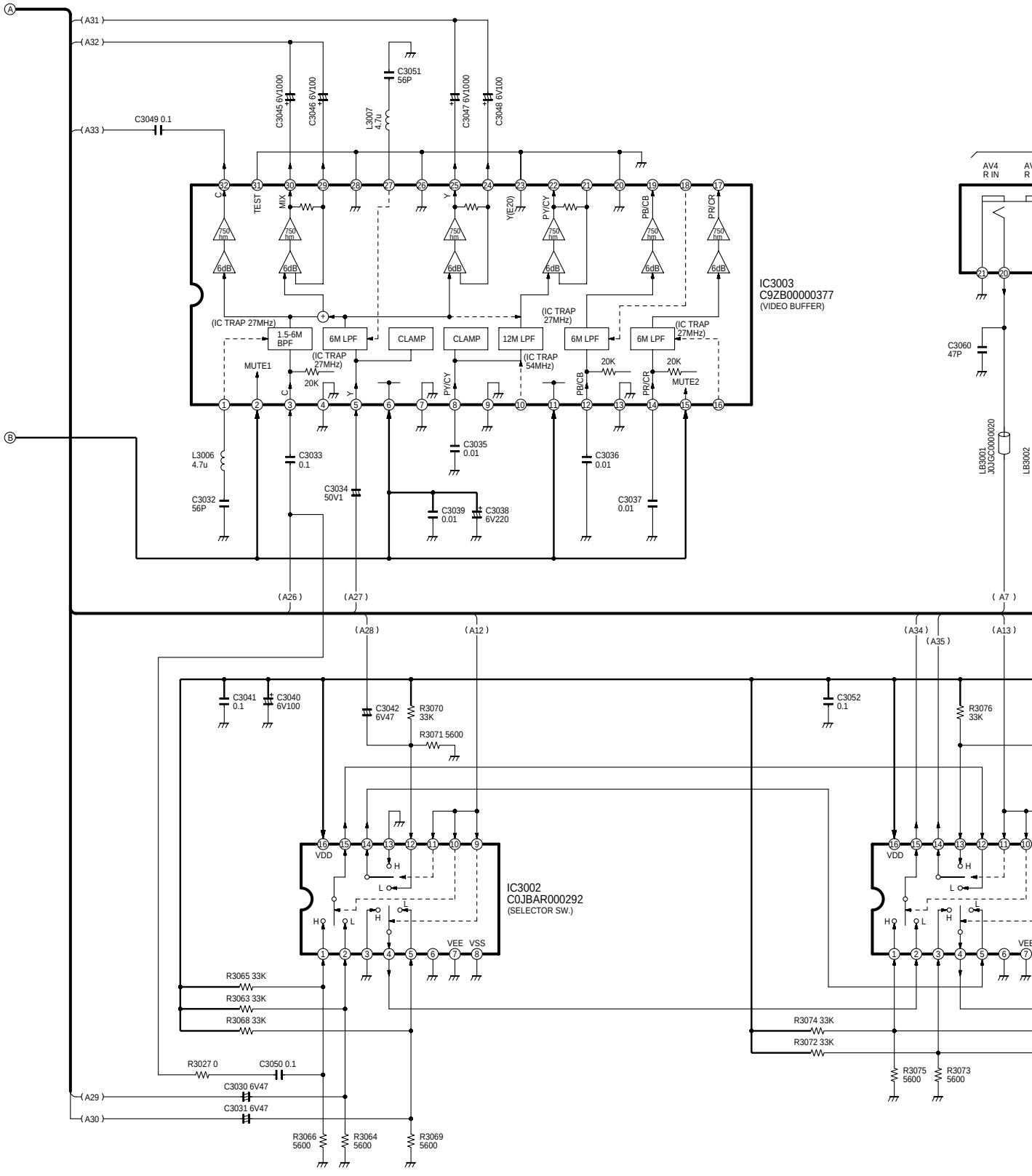




Power Supply Section(Page: A)
Net Section(Page: B)
I/O Section(Page: C)
Main Section(Page: D)
Section(Page: E)

DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

6 | 7 | 8 | 9 | 10 | 11

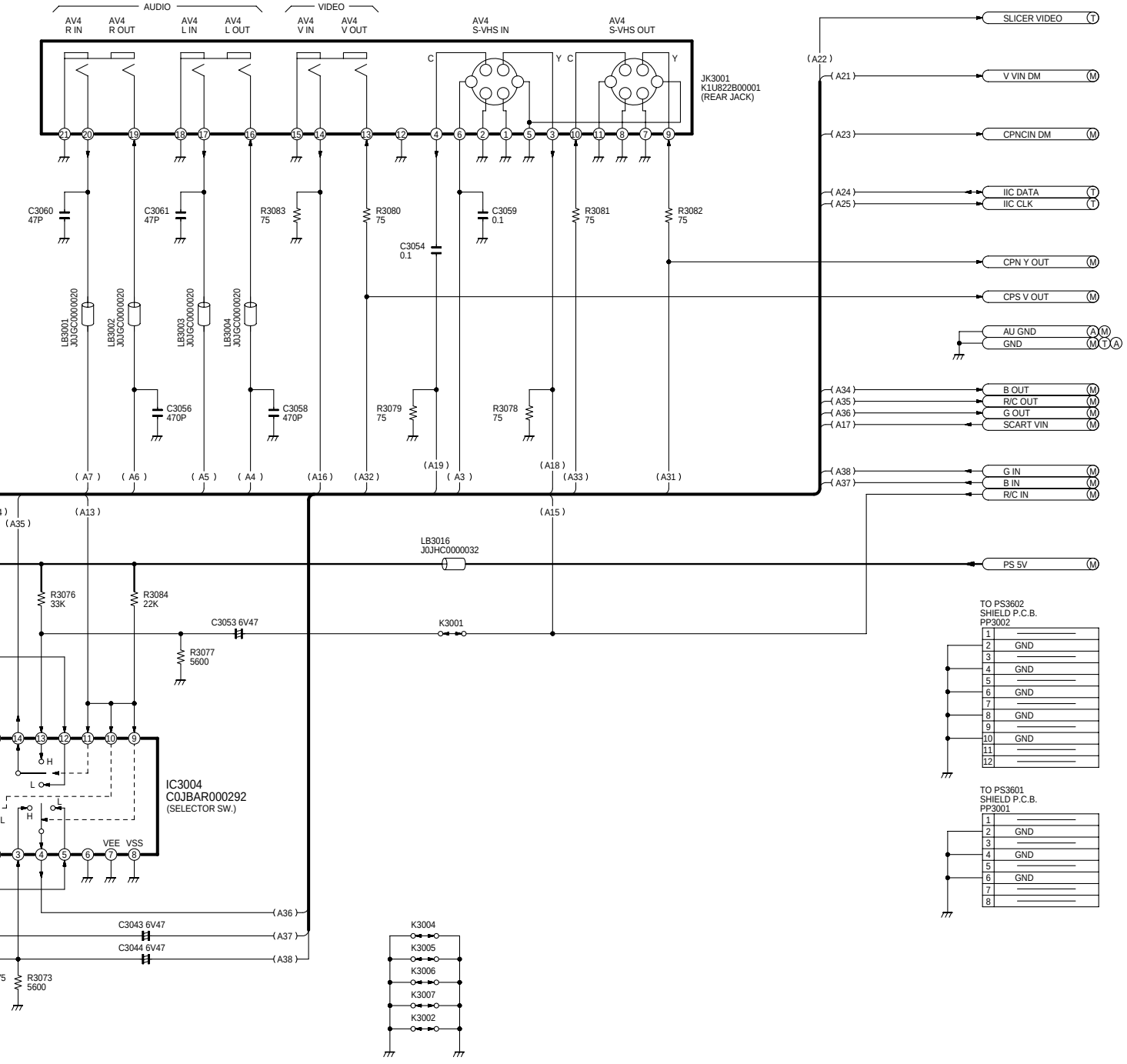


DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V

12 13 14 15 16 17

C

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



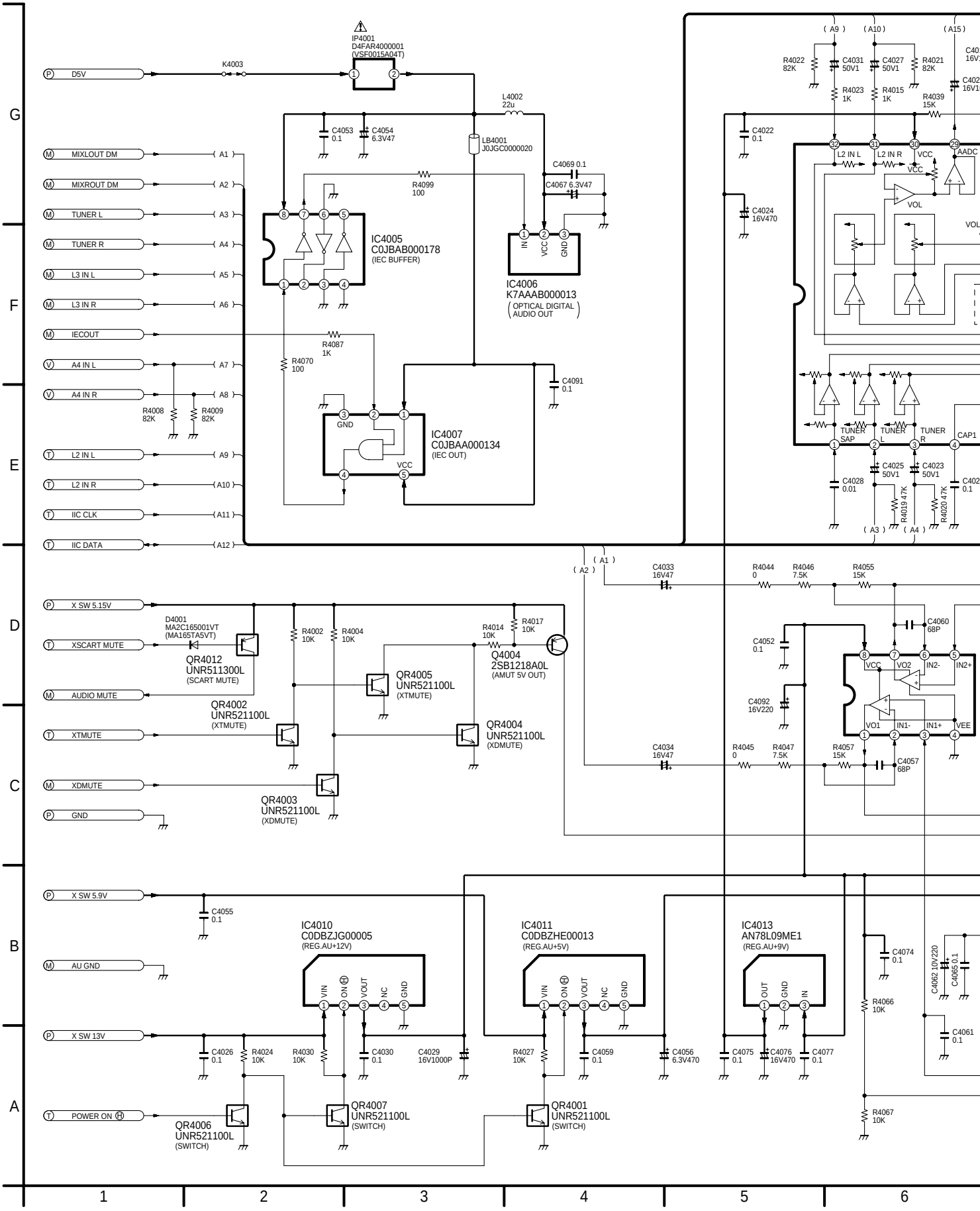
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

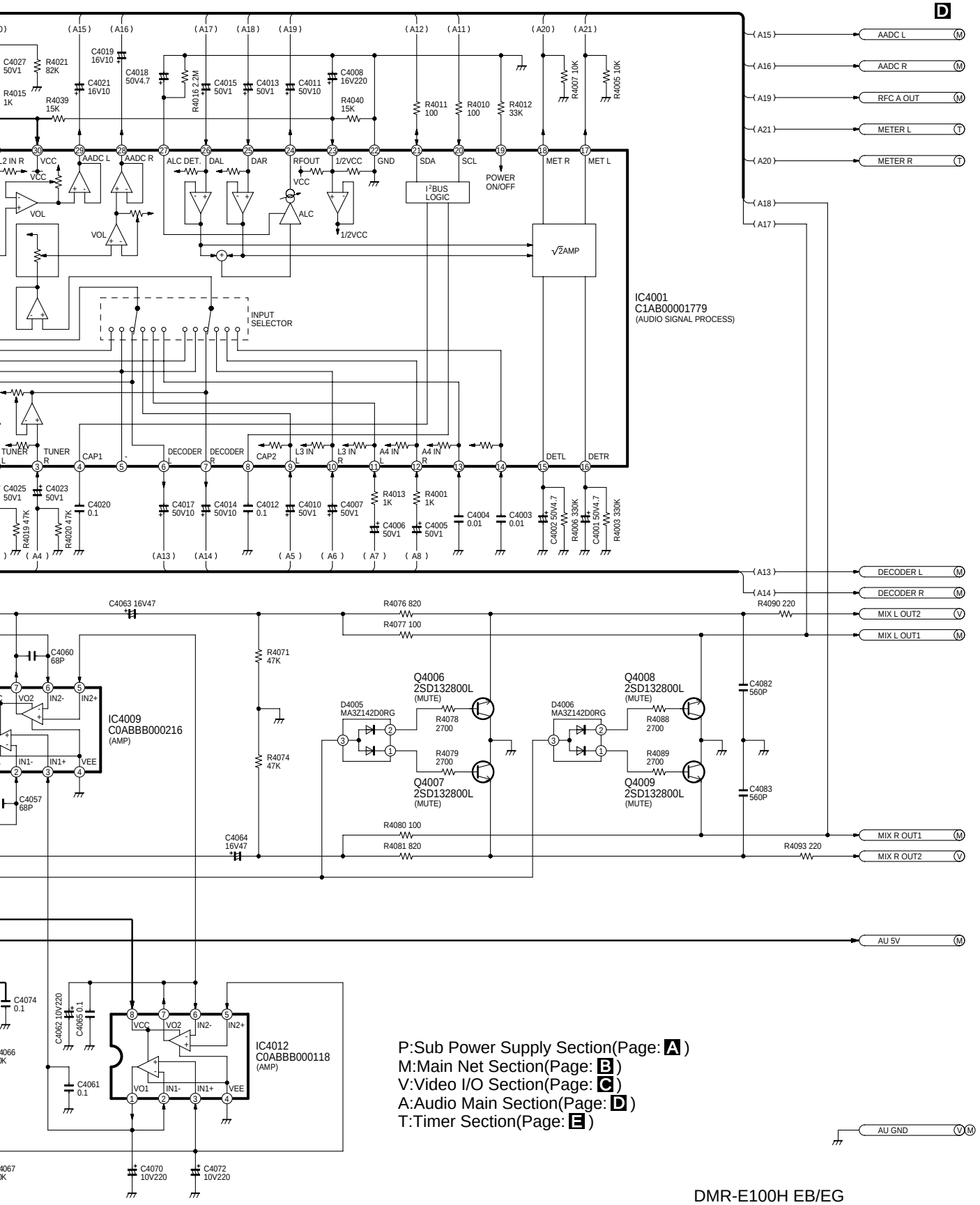
DMR-E100H EB/EG
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

atic Diagram(V)

17 | 18 | 19 | 20 | 21 | 22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)





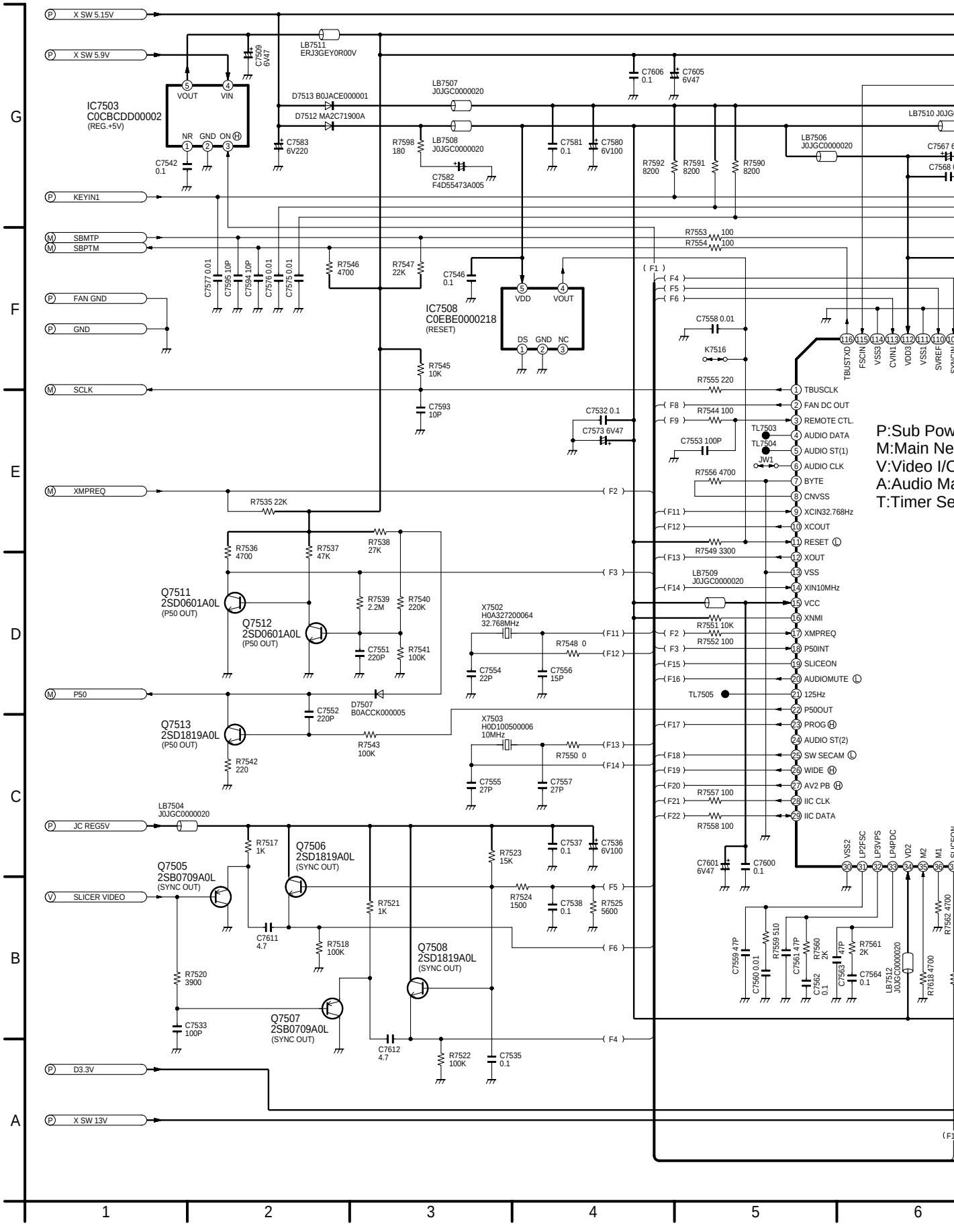
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

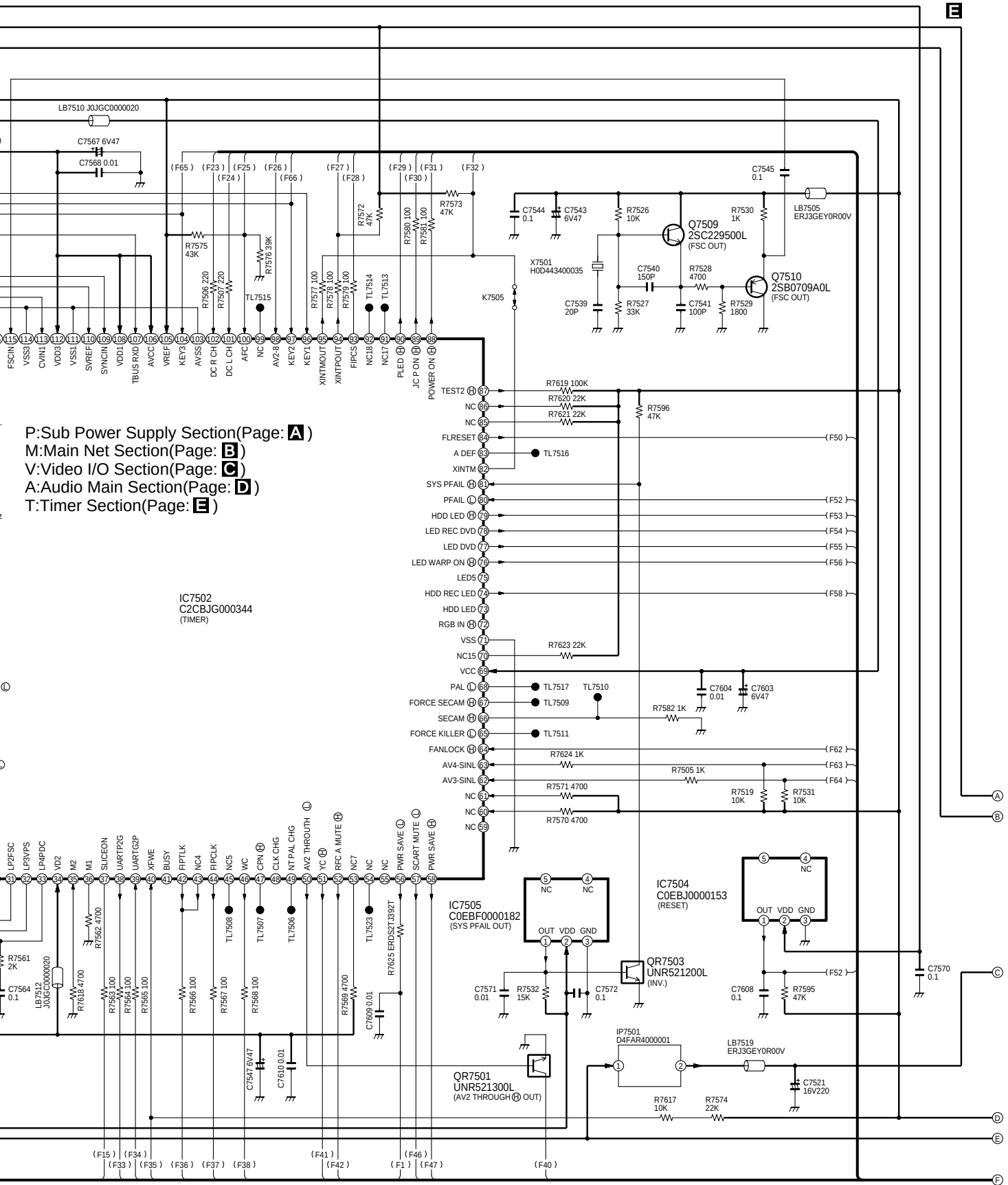
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)

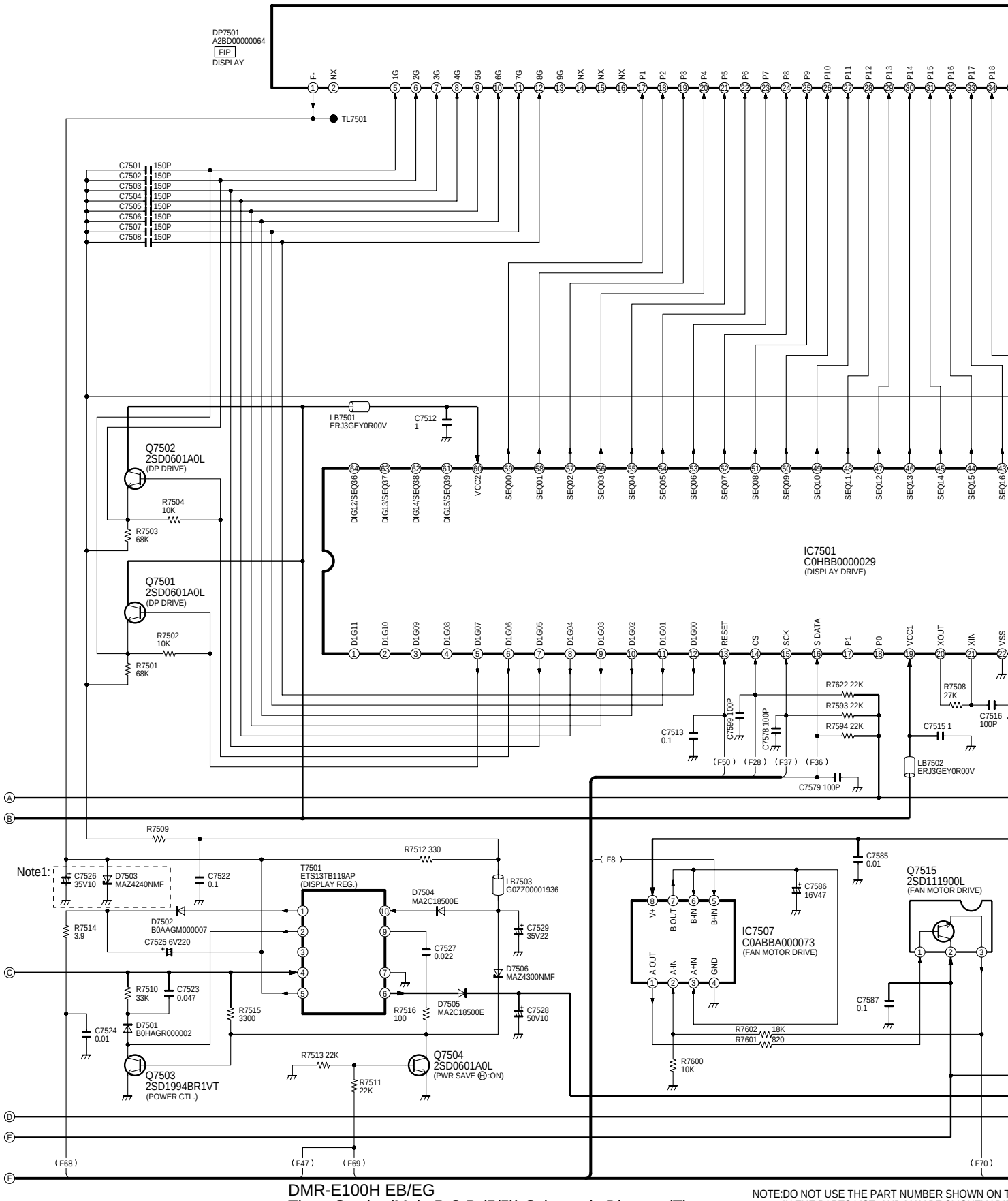
6 | 7 | 8 | 9 | 10 | 11

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)





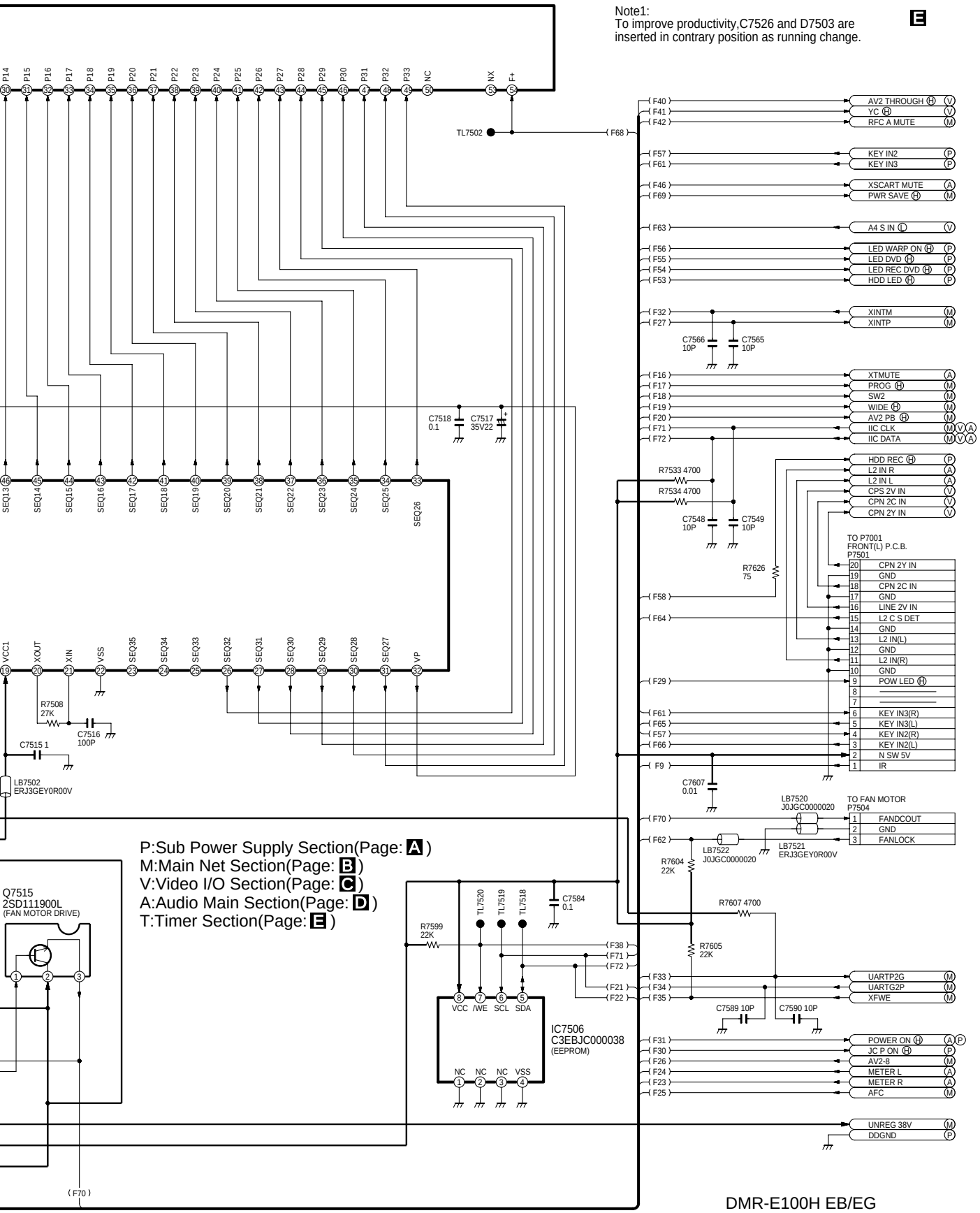
DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)



DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON T
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIF

12 13 14 15 16 17

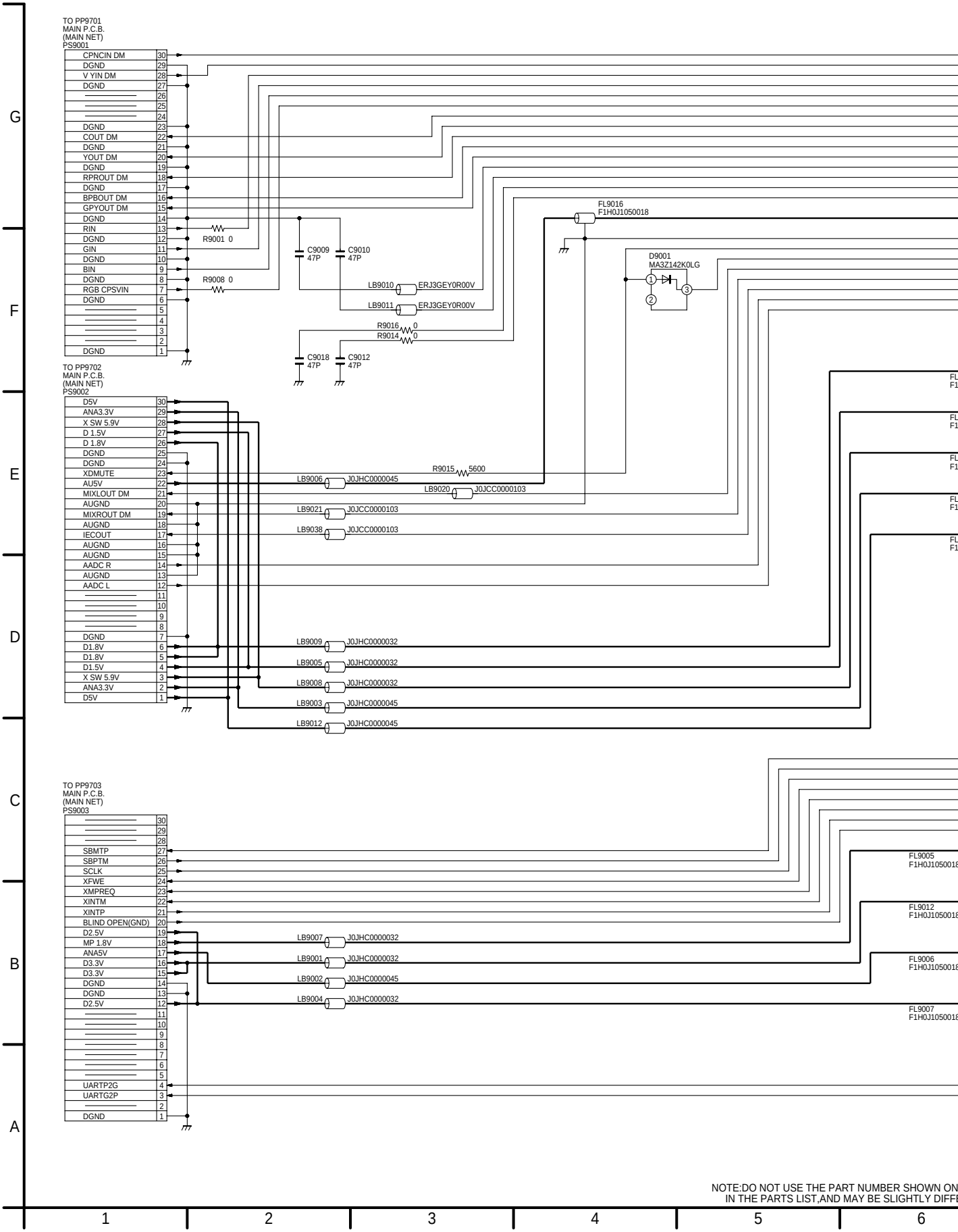


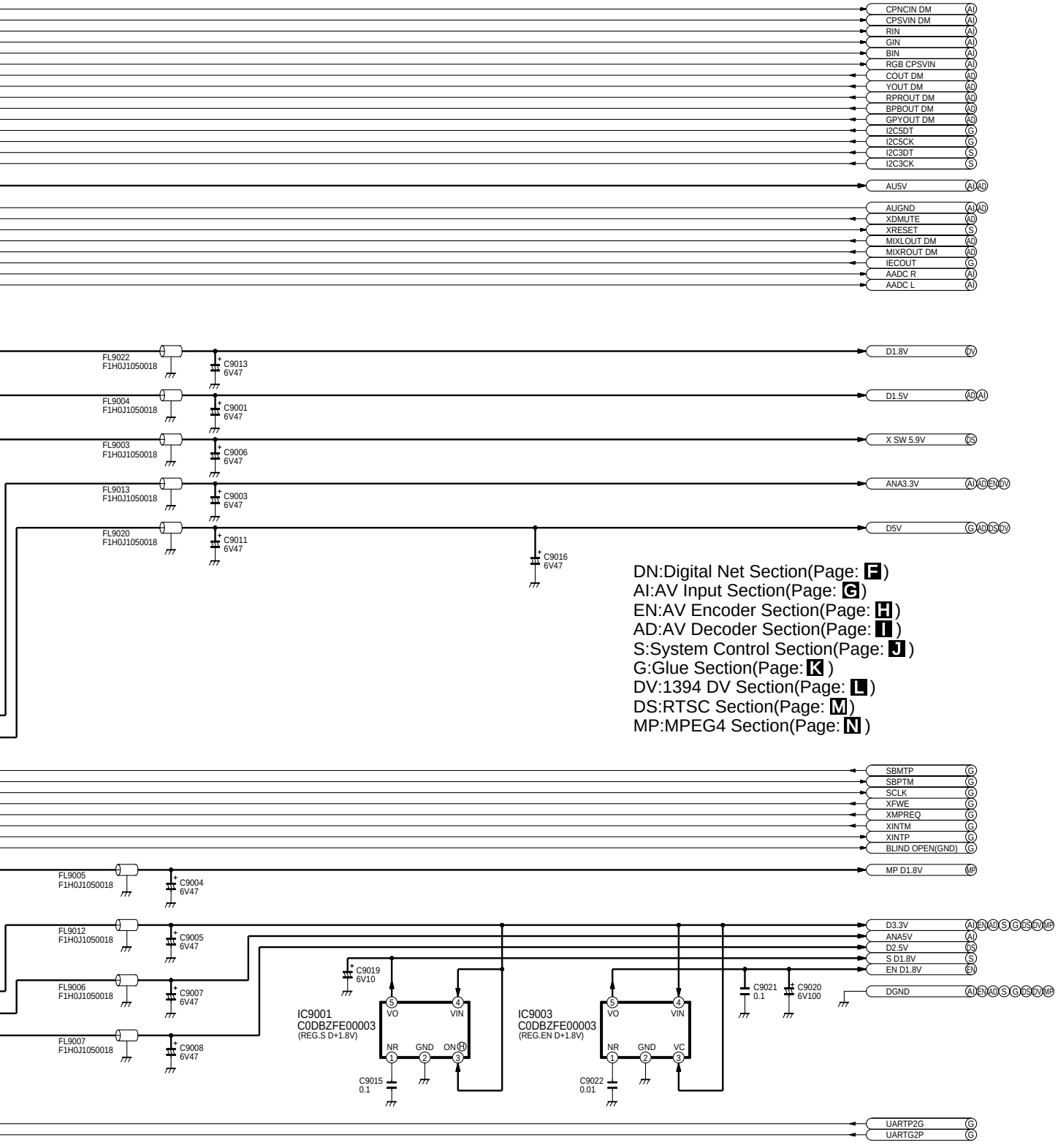
NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

18 | 19 | 20 | 21 | 22

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)





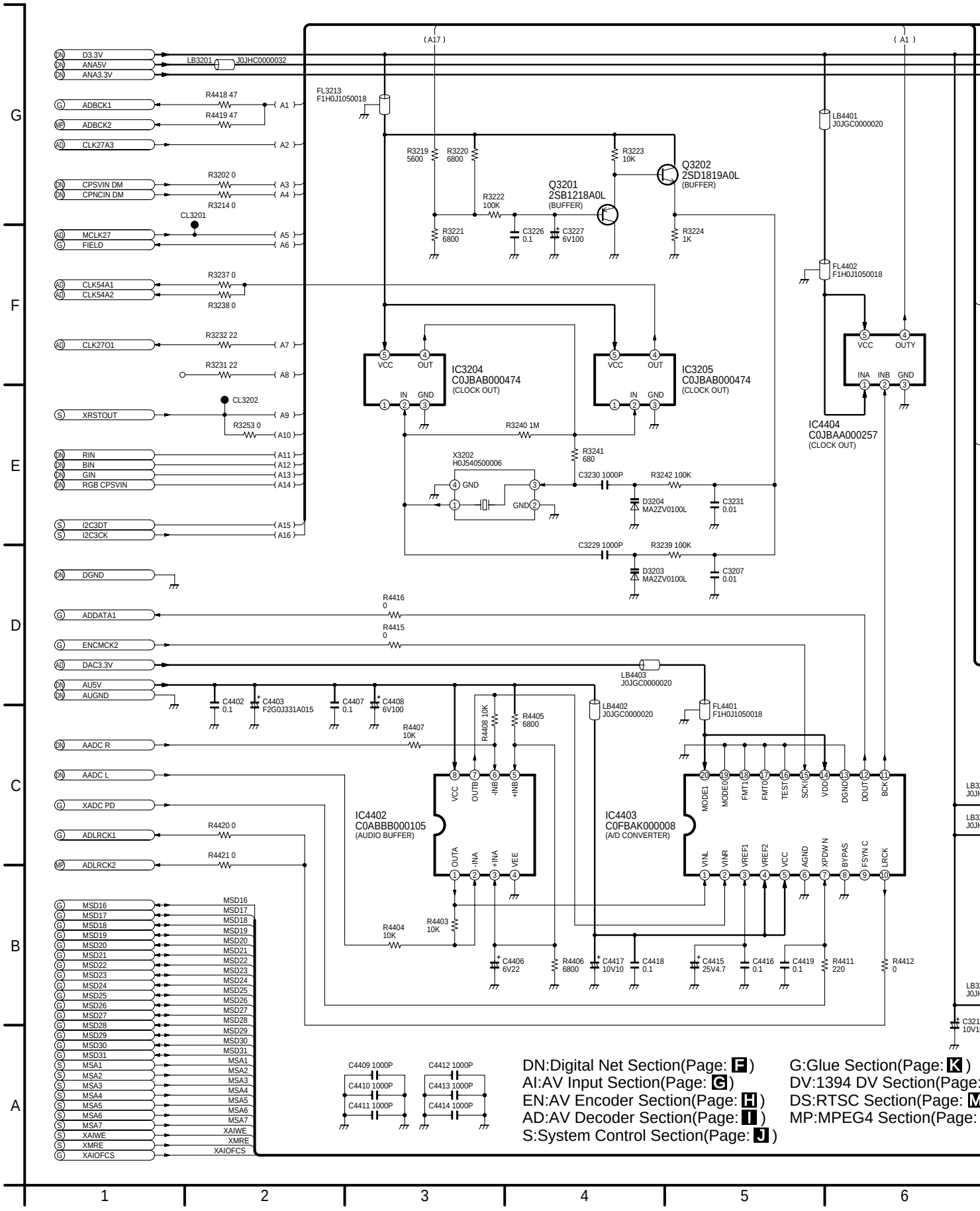
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

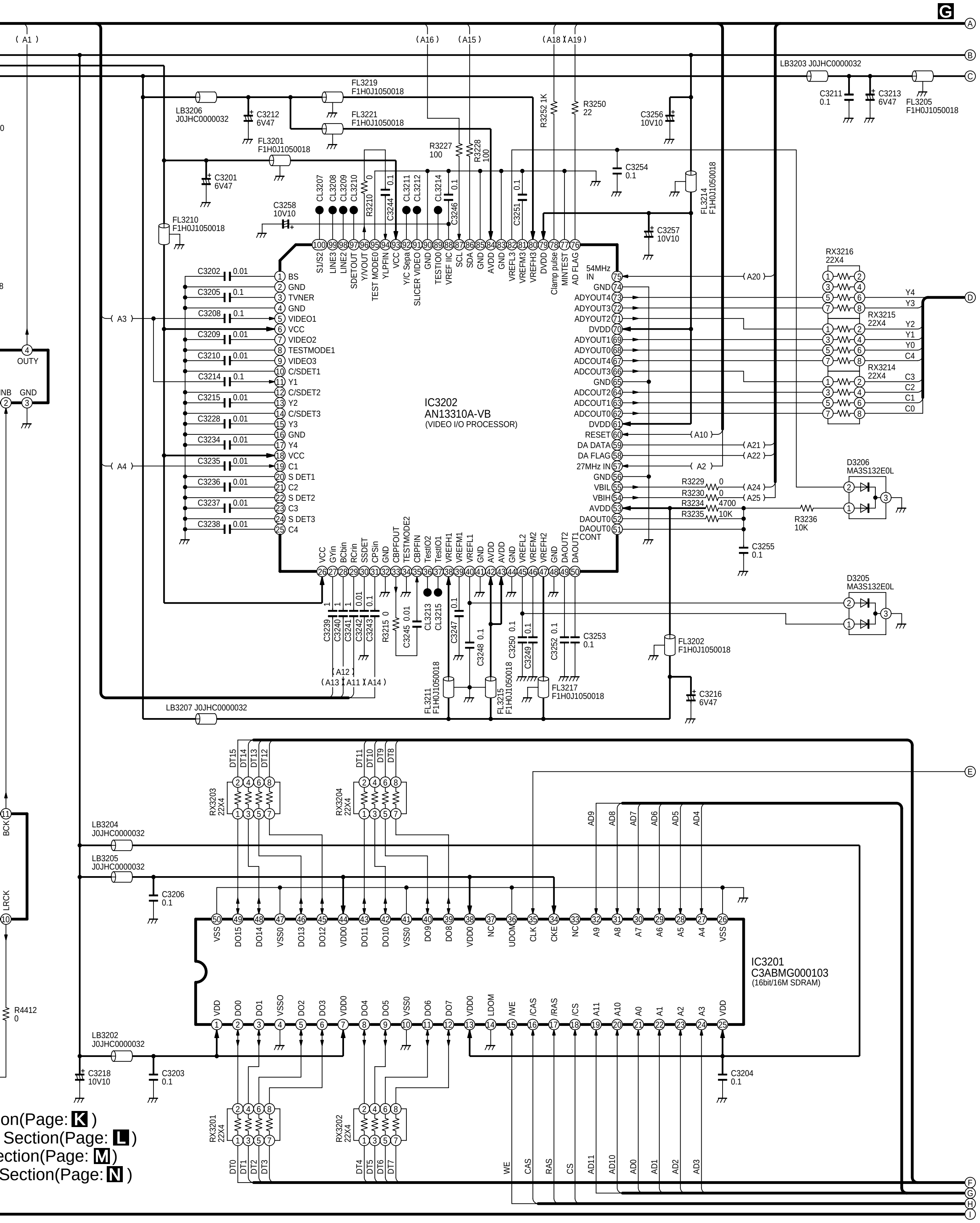
NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
Y BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H EB/EG
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)

6	7	8	9	10	11

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)

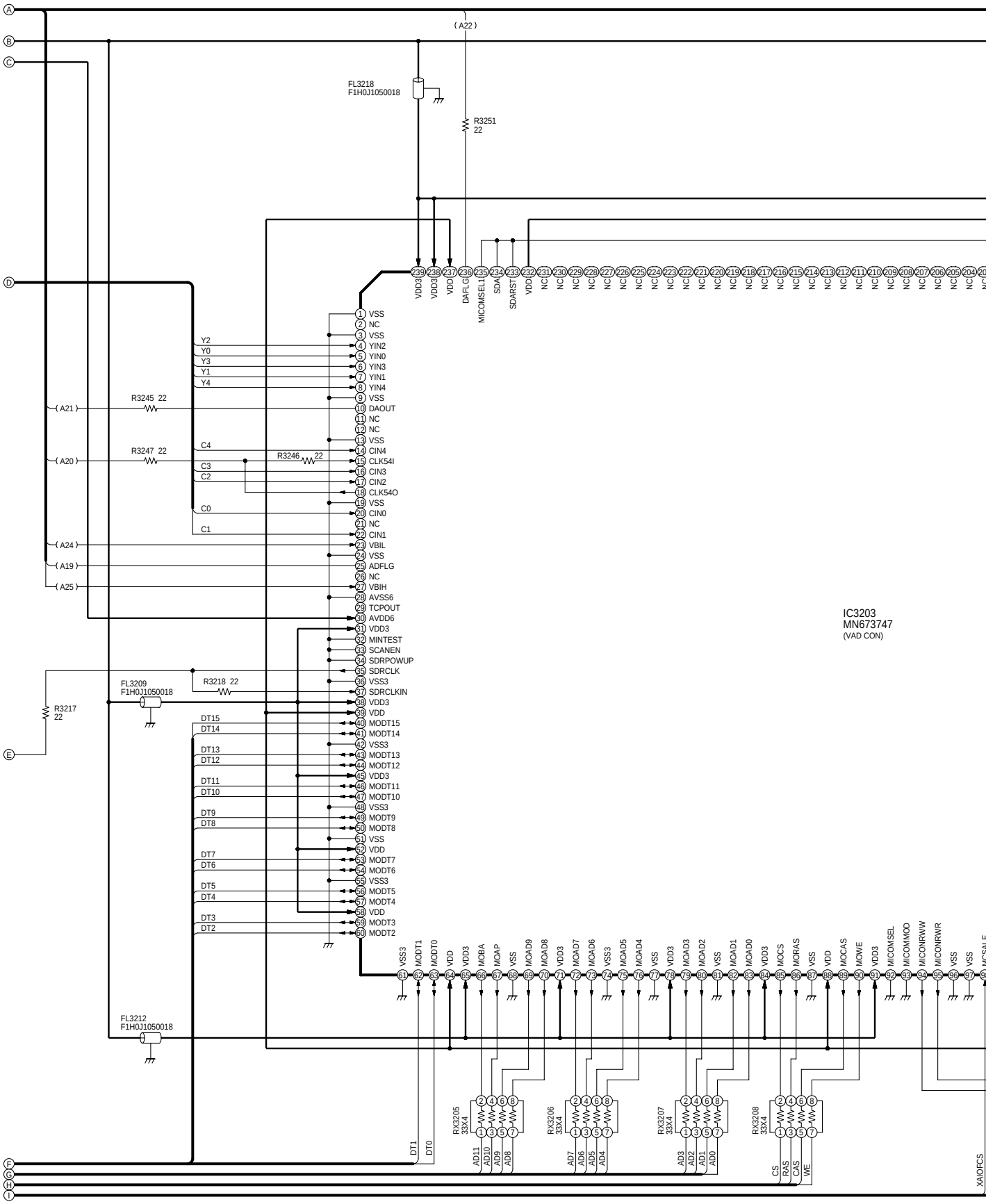


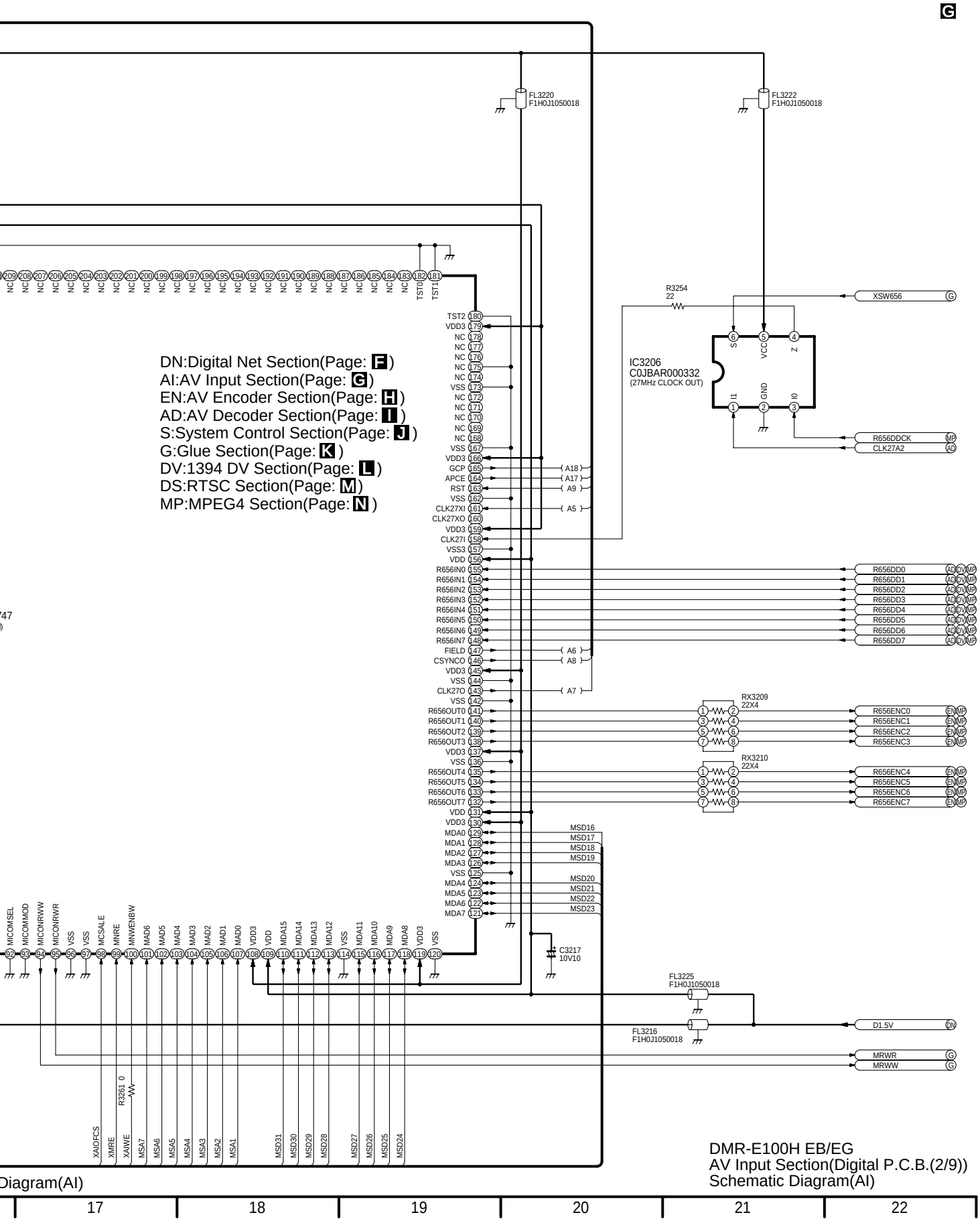

G
A
B
C
D
E
F
G
H
I
J
A1
A3
A4
A16
A15
A18
A19
A20
A10
A21
A22
A2
A24
A25
A12
A13
A11
A14
OUTY
GND
INB
BCK
LRCK
R4412
0
LB3206
J0JHC0000032
C3212
6V47
FL3219
F1H0J1050018
FL3221
F1H0J1050018
FL3201
F1H0J1050018
C3201
6V47
FL3210
F1H0J1050018
C3258
10V10
R3227
100
R3228
100
R3252 1K
R3250
22
C3256
10V10
C3254
0.1
FL3214
F1H0J1050018
C3257
10V10
LB3203 J0JHC0000032
C3211
0.1
C3213
6V47
FL3205
F1H0J1050018
CL3207
CL3208
CL3209
CL3210
R3210 0
C3244 0.1
CL3211
CL3212
CL3214
C3246 0.1
C3251 0.1
S1/S2
LINE3
LINE2
SDETOUT
Y/VOUT
TEST MODE0
YLPFIN
VCC
Y/C Sepa
SLICER VIDEO
GND
TESTIO0
VREF IIC
SCL
SDA
GND
AVDD
GND
VREFL3
VREFM3
VREFH3
DVDD
Clamp pulse
MINTEST
AD FLAG
C3202 0.01
C3205 0.1
C3208 0.1
C3209 0.01
C3210 0.01
C3214 0.1
C3215 0.01
C3228 0.01
C3234 0.01
C3235 0.01
C3236 0.01
C3237 0.01
C3238 0.01
BS
GND
TVNER
GND
VIDEO1
VCC
VIDEO2
TESTMODE1
VIDEO3
C/SDET1
Y1
C/SDET2
Y2
C/SDET3
Y3
GND
Y4
VCC
C1
S DET1
C2
S DET2
C3
S DET3
C4
IC3202
AN13310A-VB
(VIDEO I/O PROCESSOR)
54MHz
IN
GND
ADYOUT4
ADYOUT3
ADYOUT2
DVDD
ADYOUT1
ADYOUT0
ADCOUT4
ADCOUT3
GND
ADCOUT2
ADCOUT1
ADCOUT0
DVDD
RESET
DA DATA
DA FLAG
27MHz IN
GND
VBIL
VBIH
AVDD
DAOUT0
DAOUT0
CONT
R3229 0
R3230 0
R3234 4700
R3235 10K
R3236
10K
C3255
0.1
RX3216
22X4
RX3215
22X4
RX3214
22X4
Y4
Y3
Y2
Y1
Y0
C4
C3
C2
C1
C0
D3206
MA3S132E0L
D3205
MA3S132E0L
VCC
GYin
BCbin
RCrin
SSDET
CPSin
GND
CBPFOUT
TESTMODE2
CBPFIN
TestIO2
TestIO1
VREFH1
VREFM1
VREFL1
GND
AVDD
AVDD
GND
VREFL2
VREFM2
VREFH2
GND
DAOUT2
DAOUT1
C3239 1
C3240 1
C3241 1
C3242 0.01
C3243 0.1
R3215 0
C3245 0.01
CL3213
CL3215
C3247 0.1
C3248 0.1
C3250 0.1
C3249 0.1
C3252 0.1
C3253
0.1
FL3211
F1H0J1050018
FL3215
F1H0J1050018
FL3217
F1H0J1050018
FL3202
F1H0J1050018
C3216
6V47
LB3207 J0JHC0000032
DT15
DT14
DT13
DT12
DT11
DT10
DT9
DT8
RX3203
22X4
RX3204
22X4
AD9
AD8
AD7
AD6
AD5
AD4
LB3204
J0JHC0000032
LB3205
J0JHC0000032
C3206
0.1
VSS
DO15
DO14
VSS0
DO13
DO12
VDD0
DO11
DO10
VSS0
DO9
DO8
VDD0
NC
UDOM
CLK
CKE
NC
A9
A8
A7
A6
A5
A4
VSS
IC3201
C3ABMG000103
(16bit/16M SDRAM)
VDD
DO0
DO1
VSSO
DO2
DO3
VDD0
DO4
DO5
VSS0
DO6
DO7
VDD0
LDOM
/WE
/CAS
/RAS
/CS
A11
A10
A0
A1
A2
A3
VDD
LB3202
J0JHC0000032
C3218
10V10
C3203
0.1
C3204
0.1
RX3201
22X4
RX3202
22X4
DT0
DT1
DT2
DT3
DT4
DT5
DT6
DT7
WE
CAS
RAS
CS
AD11
AD10
AD0
AD1
AD2
AD3

on(Page: K)
Section(Page: L)
ection(Page: M)
Section(Page: N)

DMR-E100H EB/EG AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

6 7 8 9 10 11


IC3203
MN673747
(VAD CON)
FL3218
F1H0J1050018
R3251
22
FL3209
F1H0J1050018
FL3212
F1H0J1050018
R3217
22
R3218 22
R3245 22
R3246 22
R3247 22
RX3205
33X4
RX3206
33X4
RX3207
33X4
RX3208
33X4
DMR-E100H EB/EG AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

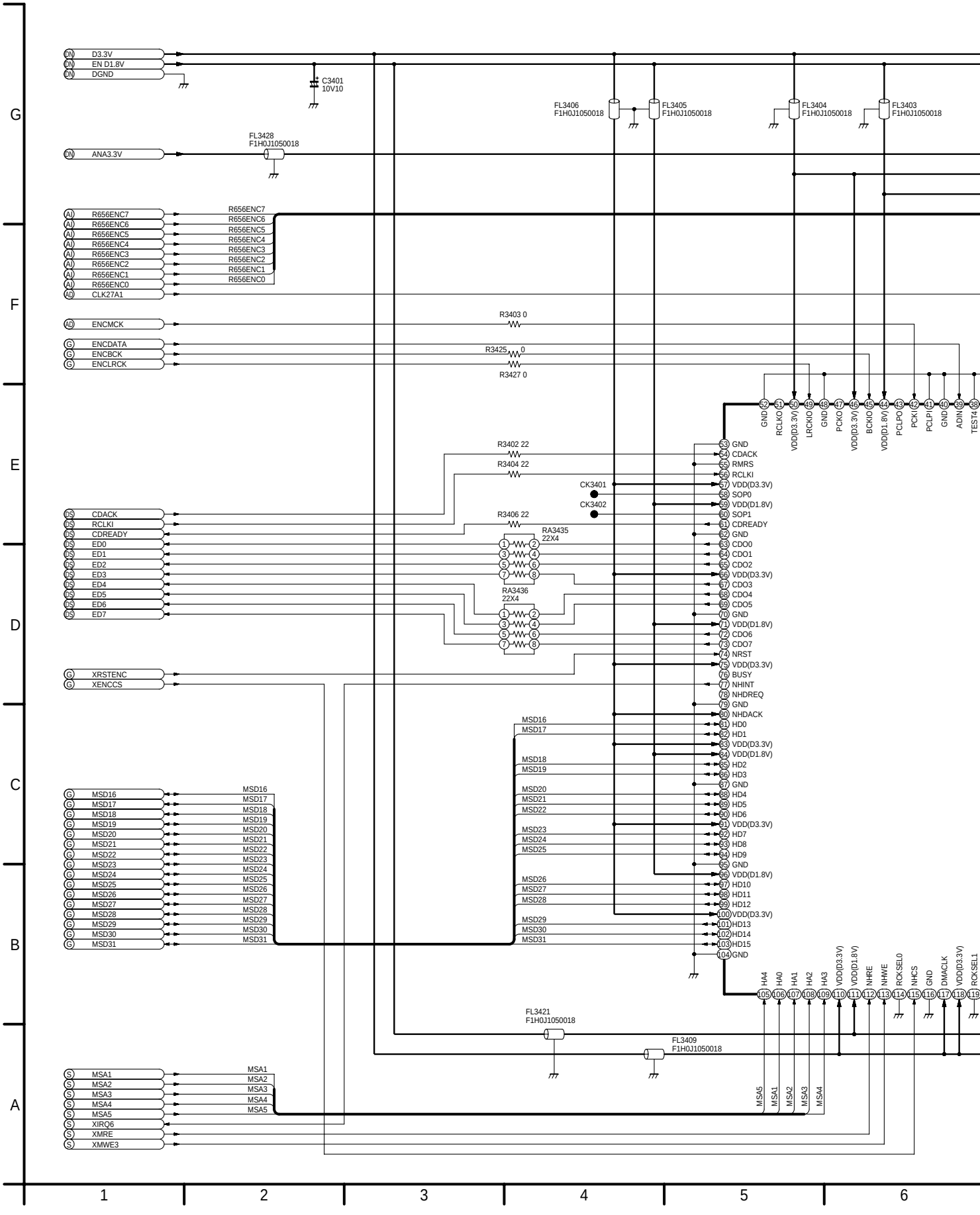


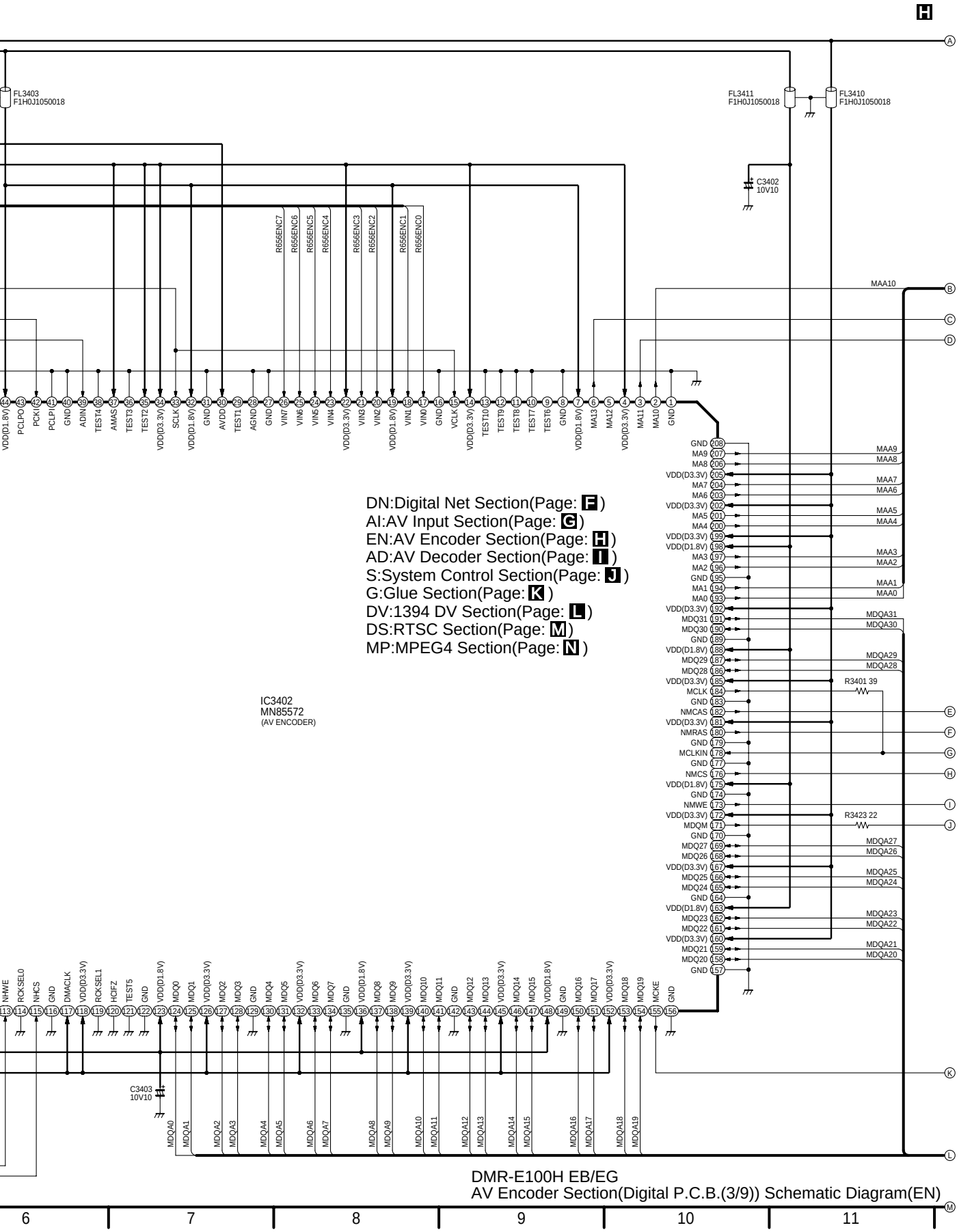
DMR-E100H EB/EG
AV Input Section(Digital P.C.B.(2/9))
Schematic Diagram(AI)

Diagram(AI)

17 18 19 20 21 22

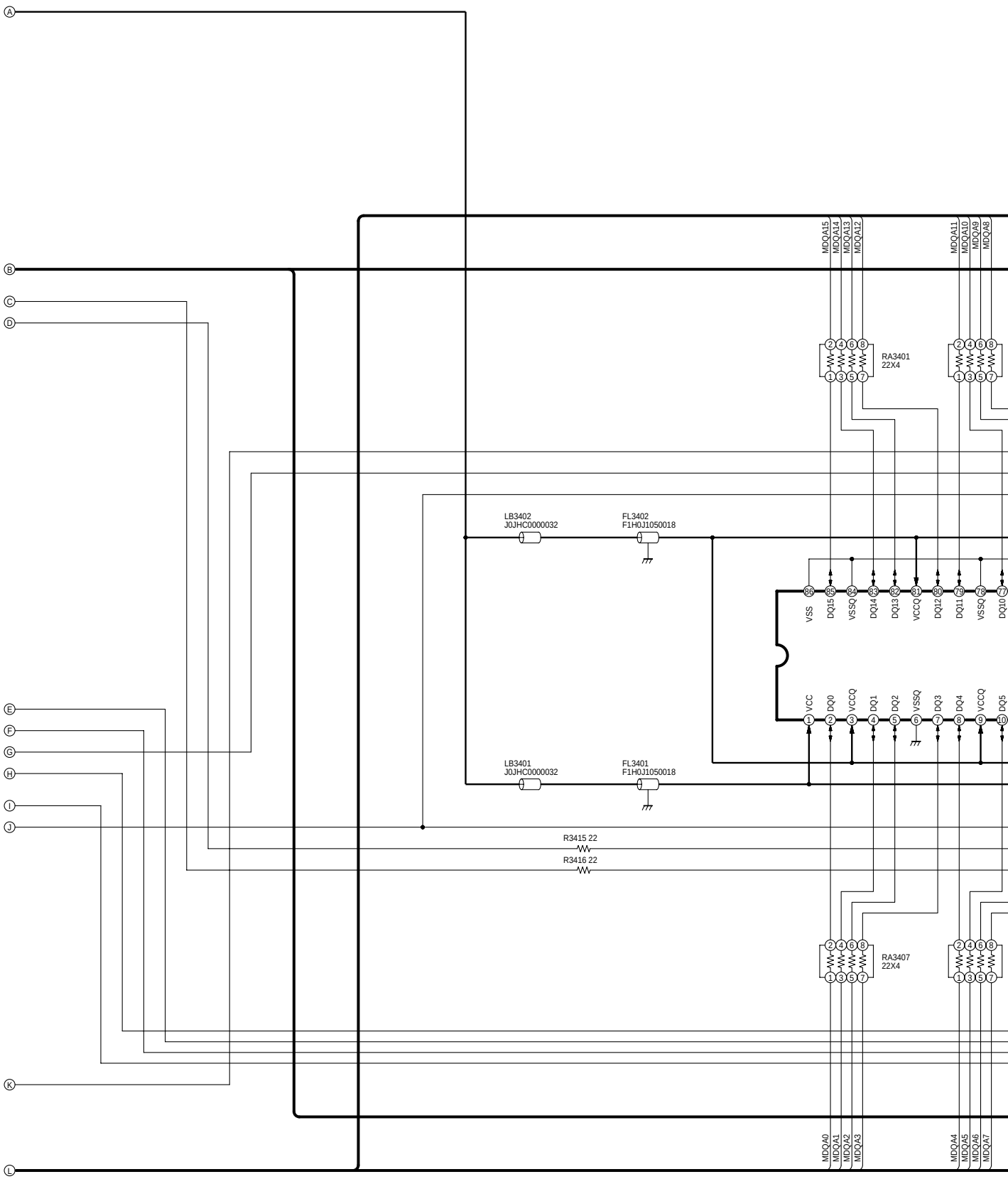
14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)



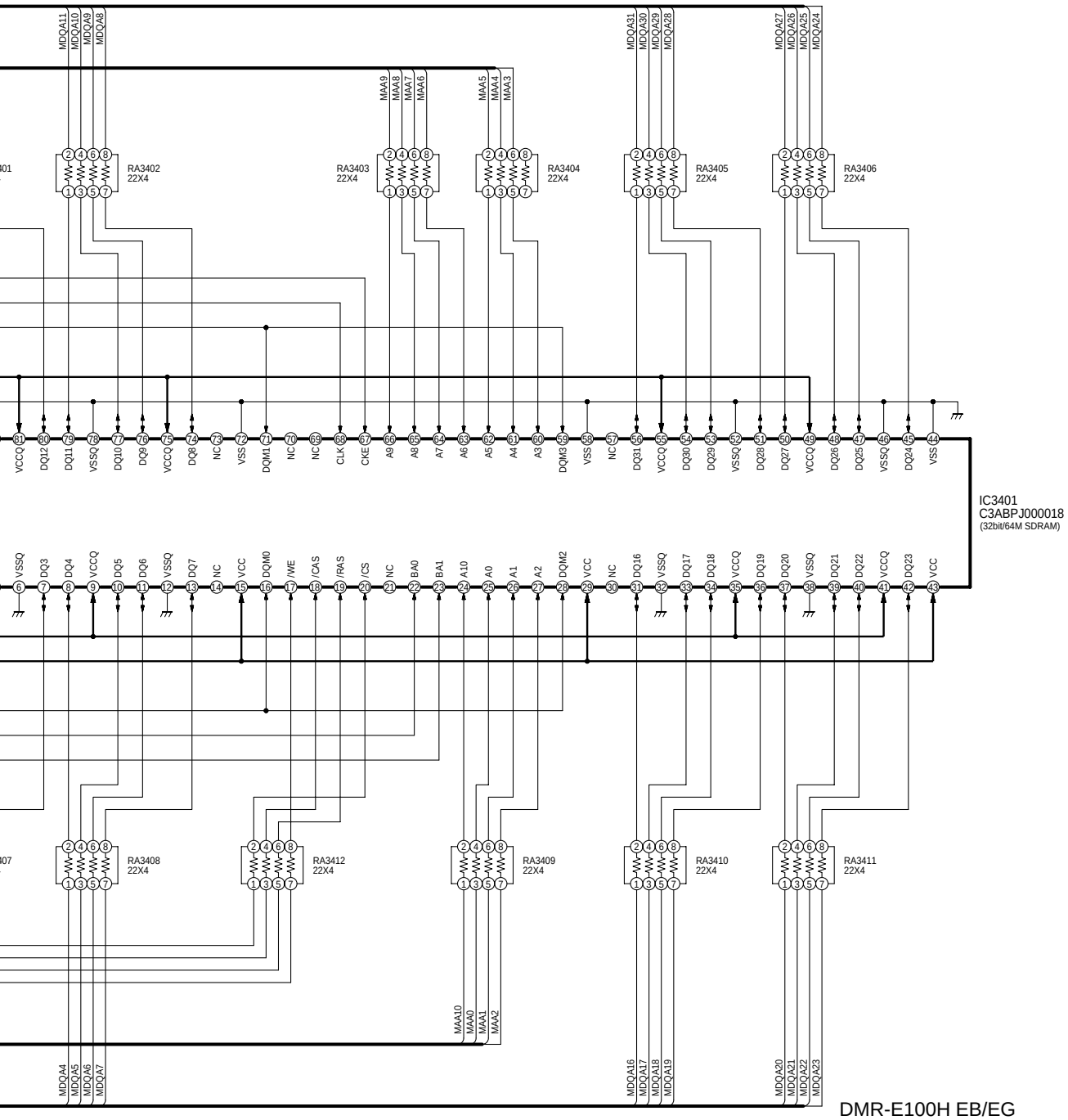


DMR-E100H EB/EG
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H EB/EG
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)



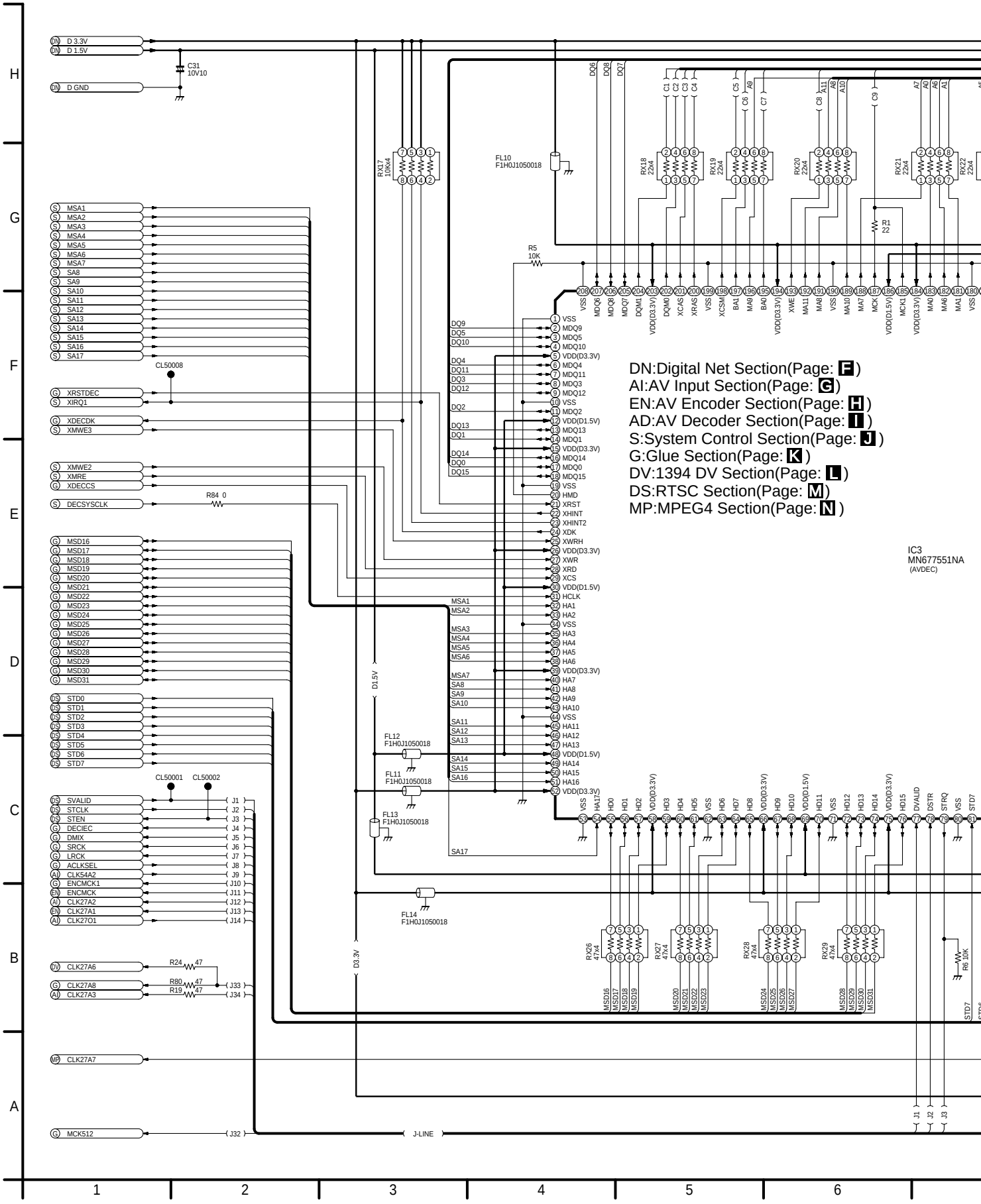
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

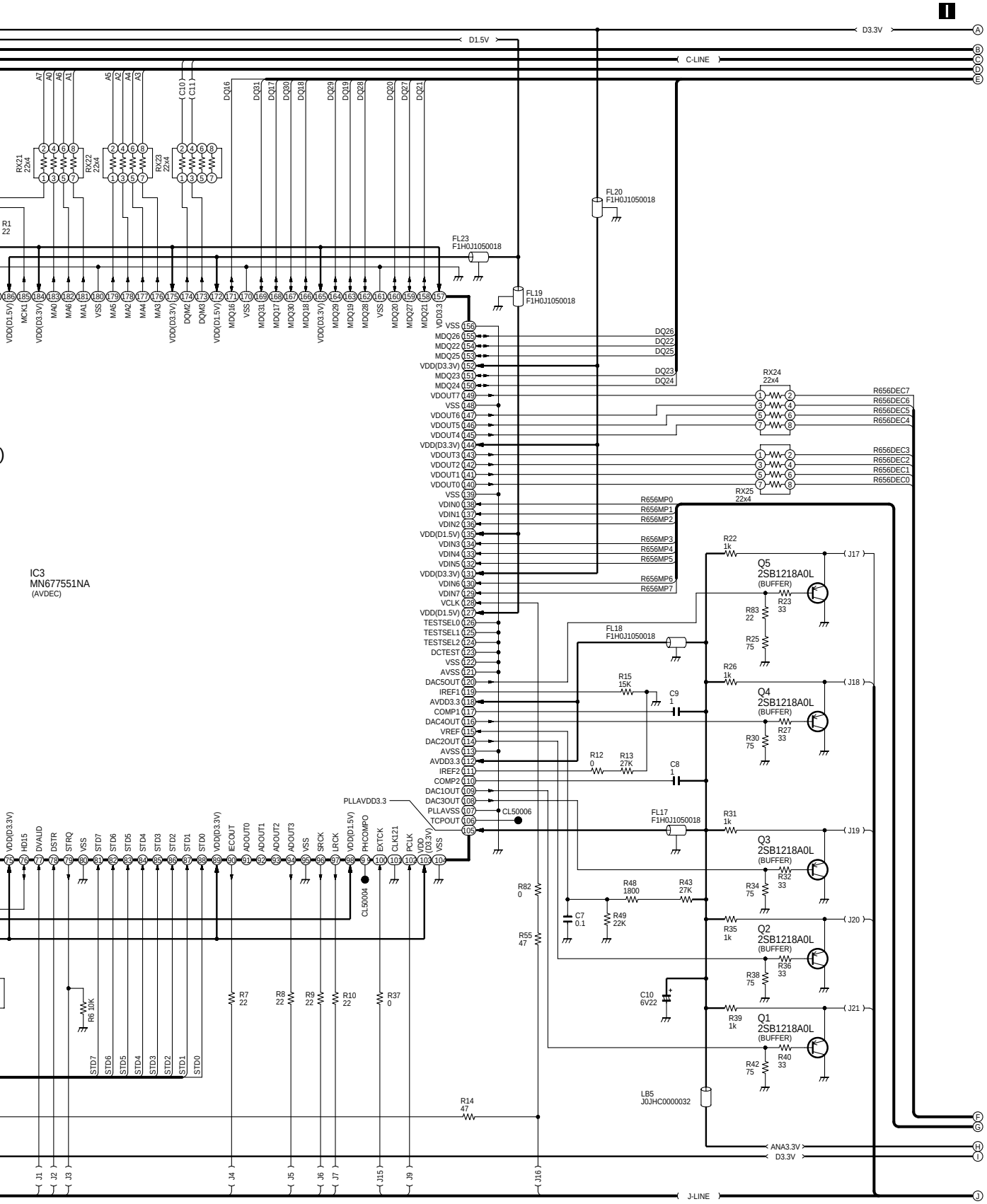
DMR-E100H EB/EG
AV Encoder Section(Digital P.C.B.(3/9))
Schematic Diagram(EN)

EN)

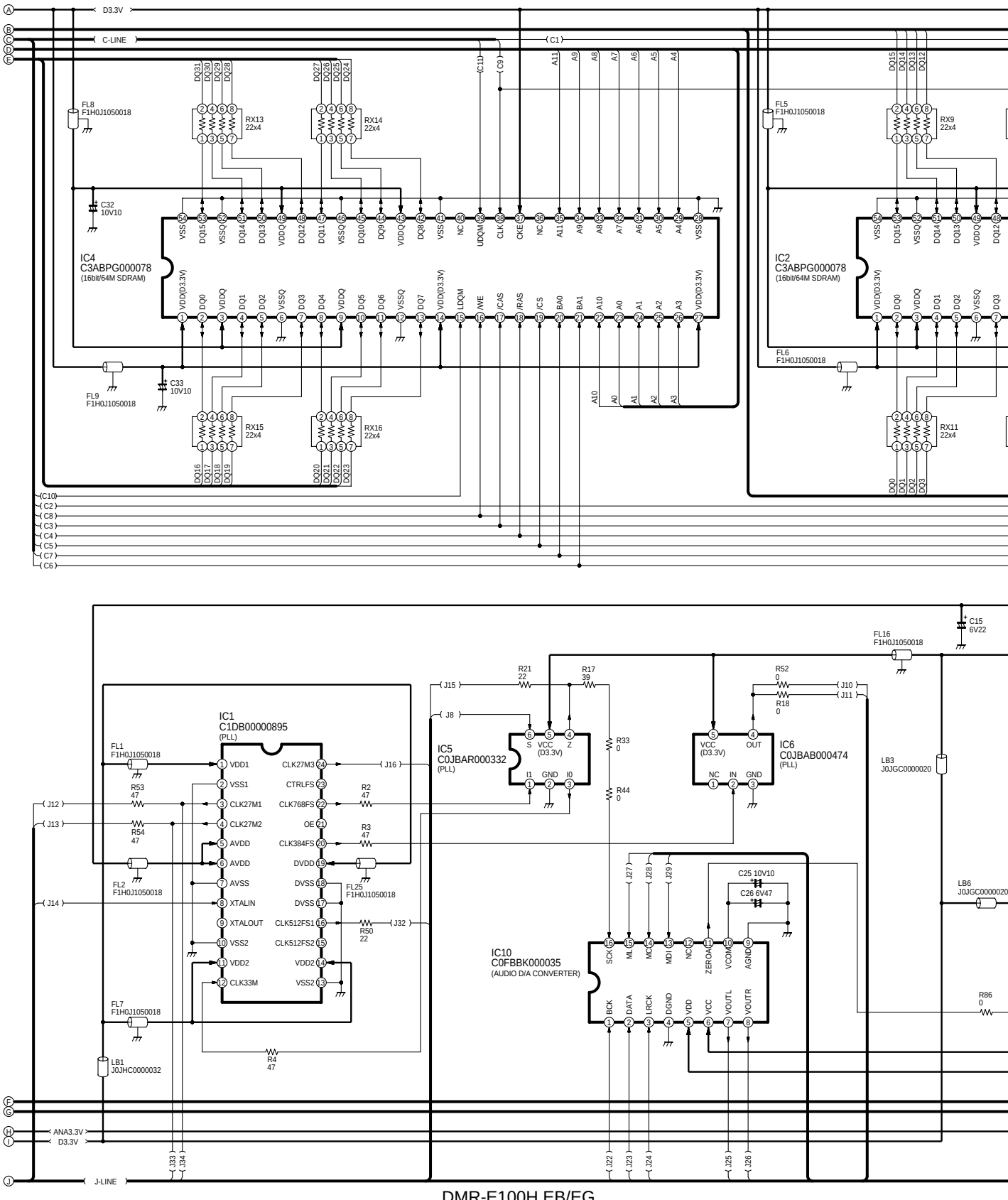
17 | 18 | 19 | 20 | 21 | 22

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)

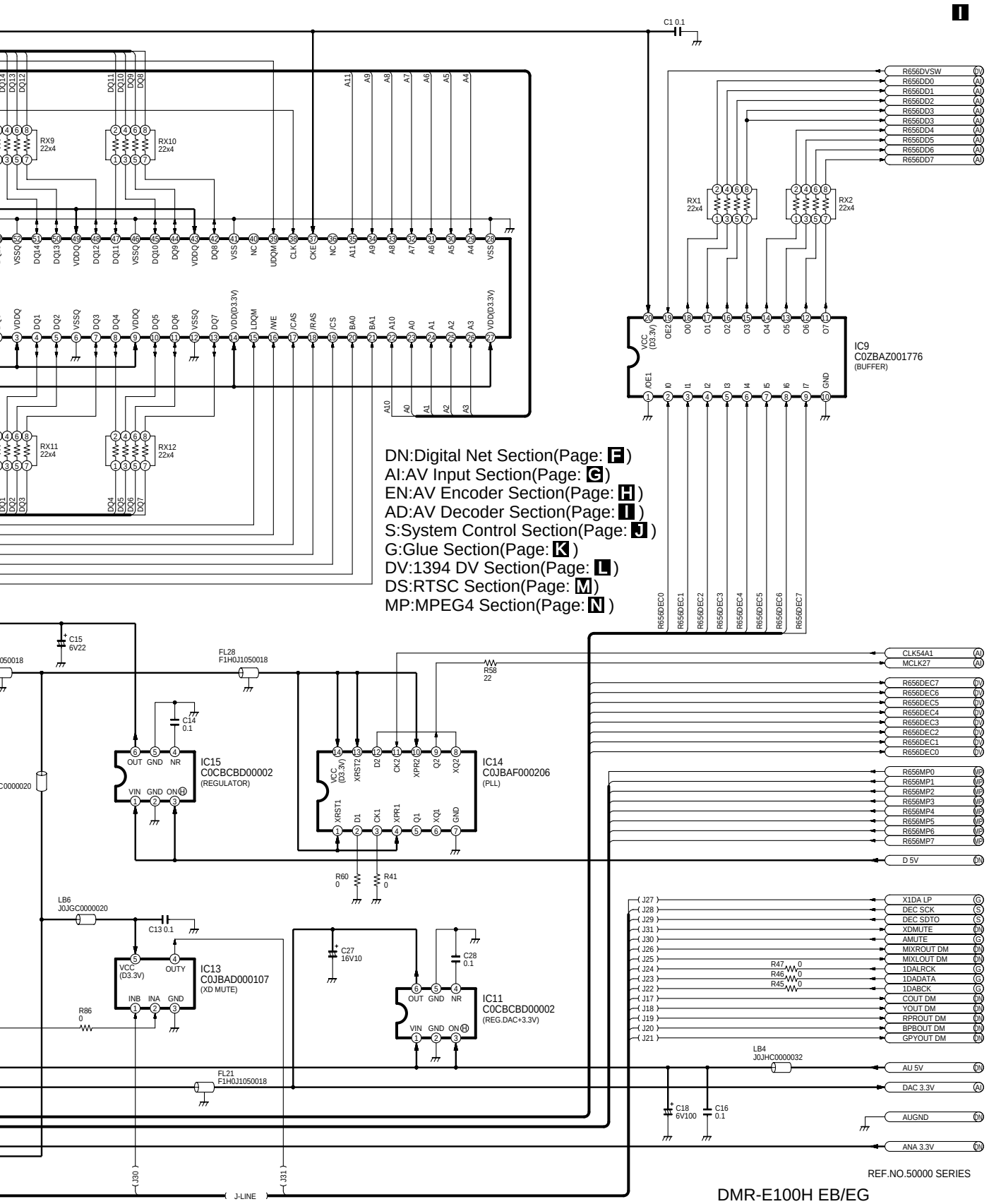




DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)



DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)



REF.NO.50000 SERIES

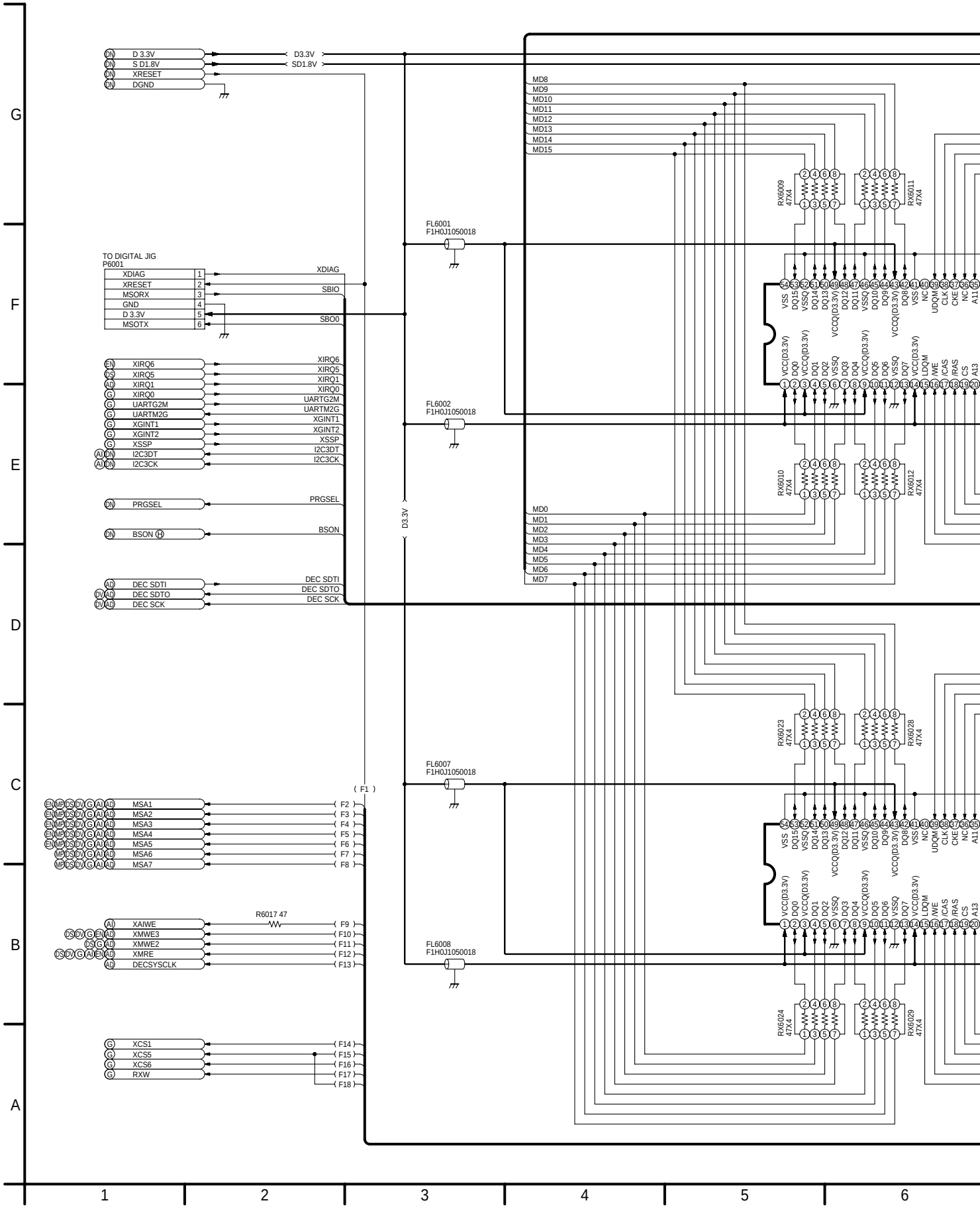
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

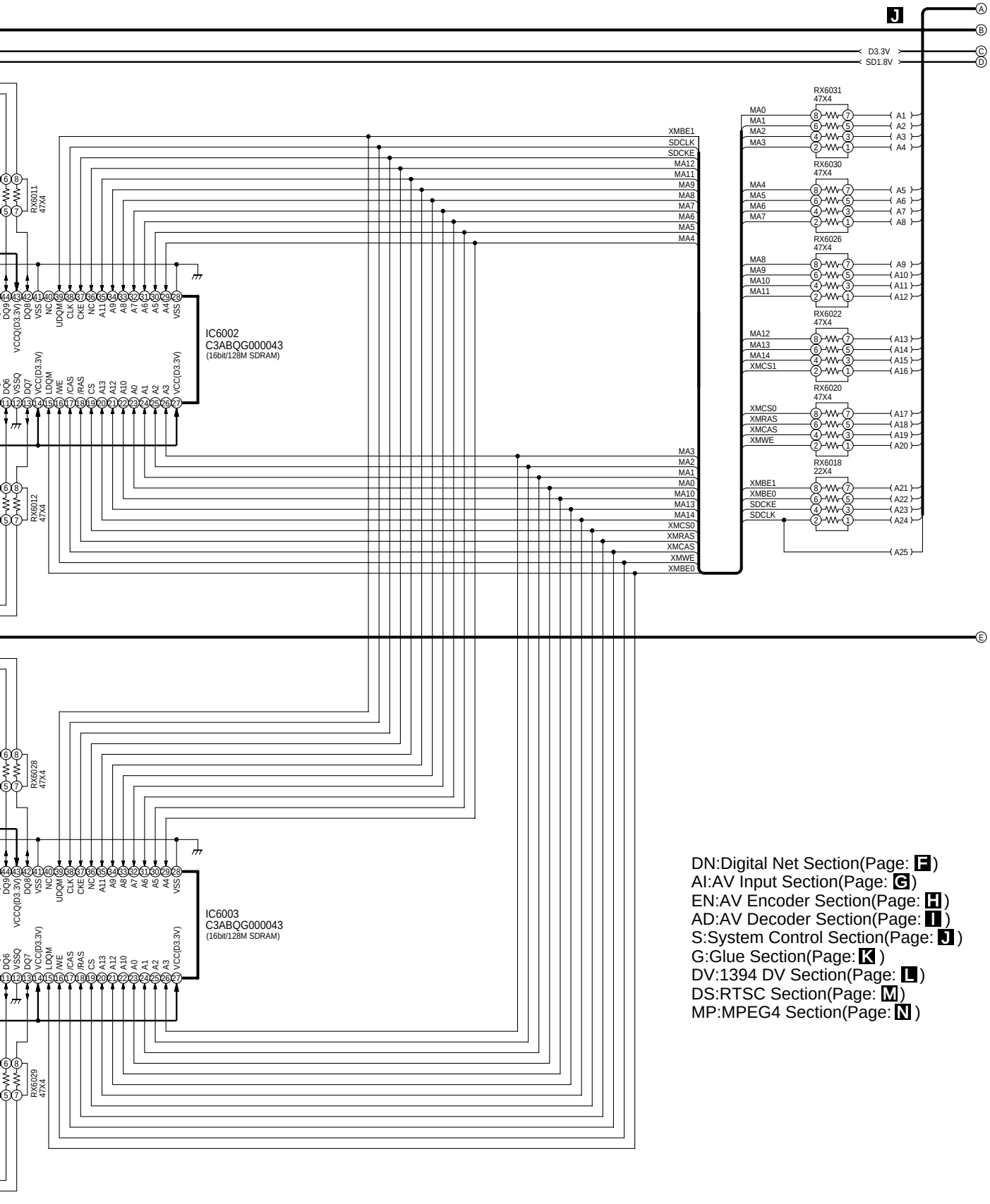
DMR-E100H EB/EG
AV Decoder Section(Digital P.C.B.(4/9))
Schematic Diagram(AD)

(AD)

19 | 20 | 21 | 22 | 23 | 24

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)

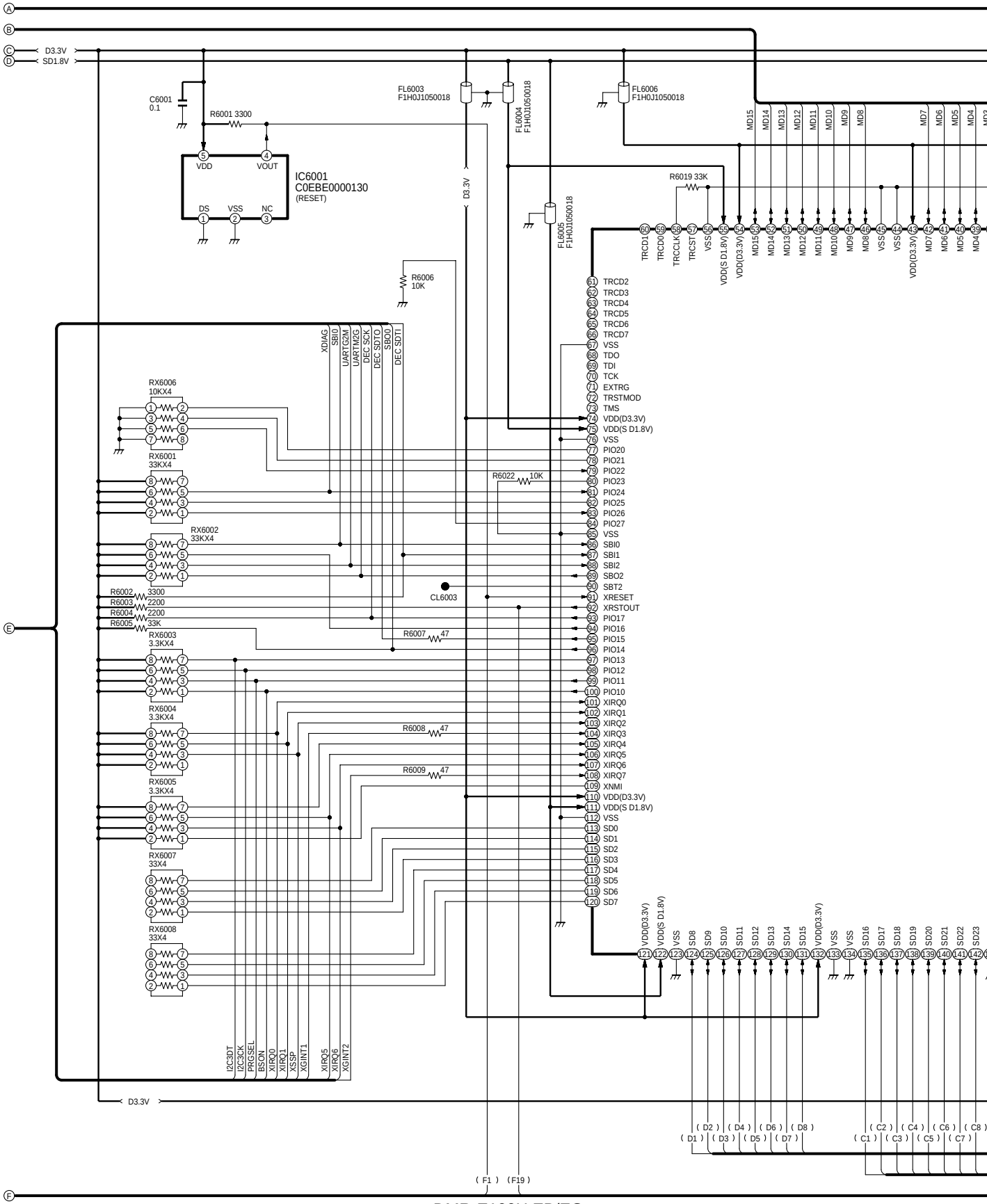




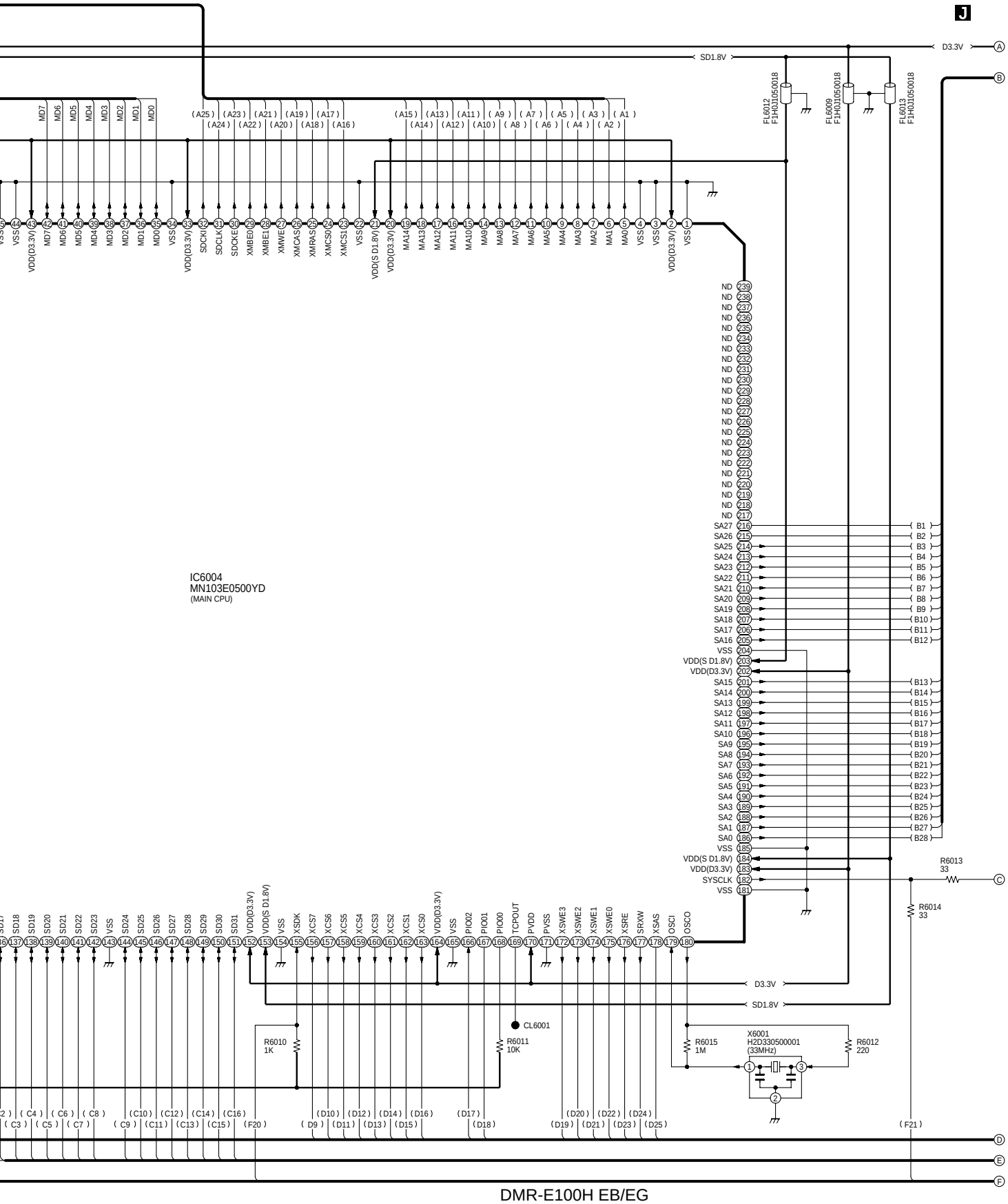
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H EB/EG
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)



DMR-E100H EB/EG

System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

17 | 18 | 19 | 20 | 21 | 22